

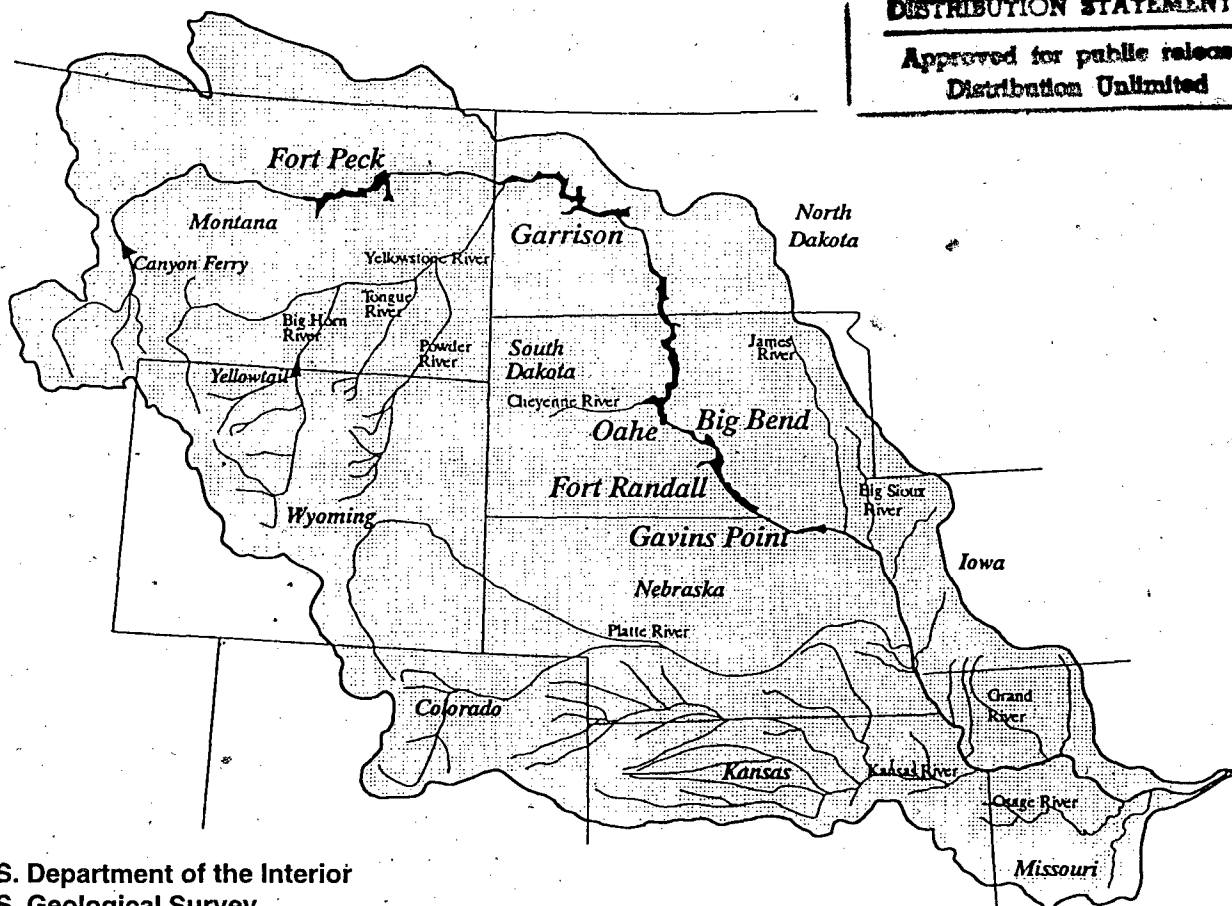
# Missouri River Natural Resources Bibliography

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Information and Technology Report  
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July 1997

by

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and

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## Contents

Suggested Citation .....	ii
Abstract .....	1
Introduction .....	1
Acknowledgments .....	2
References .....	3
Author Index .....	122
Key Words Index .....	135

# Missouri River Natural Resources Bibliography

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**Abstract.** The Missouri River Natural Resources Bibliography contains 2,232 references pertinent to the Missouri River and its floodplain on the subjects of ecology, biology, geology, geography, hydrology, sociology, policy and law. The geographic area of interest covers seven states from Montana to Missouri. The bibliography was compiled to assist researchers and management agencies in their efforts to locate information on subjects of interest. The bibliography is a product of the U.S. Geological Survey Environmental and Contaminants Research Center's Lower Missouri River Ecosystem Initiative. It is available in electronic format from the Environmental and Contaminants Research Center's Internet site at <http://www.msc.nbs.gov>. Corrections and additions to this bibliography should be sent to the Internet site above.

**Key words:** Bibliography, floodplain, Iowa, Kansas, Missouri, Missouri River, Montana, Nebraska, North Dakota, reservoirs, South Dakota

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## Introduction

The Missouri River is the longest river in the United States, traversing seven states and flowing 3,750 kilometers (2,250 miles) from the Rocky Mountains to the Mississippi River and draining one-sixth (~ 1,350,000 km<sup>2</sup>) of the land mass of the contiguous United States. The importance of the Missouri River as a navigational channel was first recognized by early American explorers, especially Lewis and Clark. By the mid-1800's, the river was well established as a route for steamboats and barges. During the same period, extensive modifications to the river and floodplain began. Extensive removal of woody debris and establishment of a stable river channel were the predominant modifications to the Missouri River during the latter half of the 19th Century.

The first half of the 20th Century was a period of intense channelization of the river and marked the start of reservoir construction. Soon after the middle of the 20th Century, six major dams had been constructed in the upper reaches of the Missouri River. By 1960 the river had essentially achieved its current hydrological regime.

Concurrent with modifications of the Missouri River were alterations in the floodplain. For much of its length, the Lower Missouri River floodplain is defined by steep bluffs. Prior to the 1900's most of floodplain was dynamically linked to the river through a regular flood pulse that occurred twice each year. The flood pulse resulted in a dynamic system that supported a high diversity of species in both the river and floodplain.

During the late 1800's farming the fertile soils of the floodplain had begun, but the risks associated with flooding kept such efforts from reaching massive scales. The advent of levees, primarily after World War I, reduced the frequency of floods and led to massive alterations of the floodplain. Between the late 1930's and the 1970's, the vast majority of the lower reaches (below Sioux City, Iowa) of the Missouri River floodplain had been converted from wildlife habitat to row crops. Alteration of the Missouri River and its floodplain has had dramatic effects on the ecological function of the system. By 1990, the river bore little resemblance to the descriptions of Lewis and Clark and much of the floodplain was a complex arrangement of levees and agricultural fields.

During 1993, an extensive period of midwestern thunderstorms raised water levels in the Missouri River beyond previous records and resulted in the "Great Flood of 1993." Levee breaks and resultant flooding of the terrestrial habitats adjacent to the river resulted in massive damage to crops and property along much of the length of the lower river. In response to the flood, numerous private organizations and federal and state agencies began reexamining natural resource questions related to the Missouri River and floodplain.

During 1995, snowmelt in combination with rain resulted in another devastating flood. The results of two floods in less than 24 months, memories of previous floods (e.g., the flood of 1986) and a renewed recognition of the importance of the Missouri River and its floodplain as natural resources have led to considerable amounts of research related to the river system.

This bibliography of over 2,200 records was produced in order to assist with the identification of printed reports and peer-reviewed papers that may be important to researchers and managers working in the Missouri River or its floodplain. The bibliography is one of many projects funded by the U.S. Geological Survey's Lower Missouri River Ecosystem Initiative which is coordinated by the Environmental and Contaminants Research Center in Columbia, Missouri. The main focus of this effort was to produce a bibliography that contained references that are appropriate for citation. Although a substantial amount of effort was put into the Missouri River Natural Resource Bibliography's creation, neither this nor any bibliography should be considered the sole source of documents, papers and reports pertinent to the subject under consideration.

The Missouri River Natural Resources Bibliography should greatly reduce the search time of investigators, especially those new to the region, but we encourage the use of other traditional methods of locating information and personal contact with government agencies if impact assessments and internal reports may be useful to your particular investigation. The natural resource focus of this bibliography is large in scope, but necessary for investigators conducting research at ecosystem, landscape and regional levels. Literature from the areas of biology, geology, geography, hydrology, soil science and policy were included if they contained information pertinent to the Missouri River and its floodplain.

A variety of sources were used to obtain information that is included in this bibliography. Extensive literature searching was done on a variety of computer data bases including: BIOSIS, Water Resources Abstracts, Georef, MARCIVE, NTIS, PapersFirst, Current Contents-Science, Dissertation Abstracts, UnCover, Agricola, and a variety of bibliographies available on the Internet. In addition, any known printed bibliographies related to the study area were thoroughly reviewed as sources. All citations from the Missouri River Bibliography produced by the Missouri River Natural Resources Committee (MRNRC) during 1993 were incorporated into the Missouri River Natural Resource Bibliography. Literature cited sections of books, reports and papers were also extensively examined.

This bibliography was extensively distributed for review and comment. Over 25 individuals received drafts of the bibliography along with comment sheets. Copies of the bibliography were displayed at the 1st Annual Conference on Natural Resources of the Missouri River Basin along with comment sheets to be filled by individuals who noted missing references and other discrepancies. In addition to being available in printed form, the bibliography is available for use on the Internet at <http://www.msc.nbs.gov>.

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# Author Index

- Aadland, L.P. 1  
 Aagaard, F.C. 2  
 Abbey, D. 3  
 Abbott, H.C. 954  
 Abdun, N.E.A. 4  
 Abraham, C.E. 5  
 Abrahamson, D.E. 1476  
 Abt, S.R. 159  
 Ackerman, G. 6  
 Ackerman, W.C. 7, 98  
 Adolphson, D.G. 8  
 Ahler, S.A. 9  
 Aiken, G.R. 10  
 Aiken, J.D. 11  
 Albin, R. 12  
 Albrecht, W.A. 81  
 Aleti, A. 1083  
 Alex, L.M. 13  
 Alexander, C.M. 1368  
 Alexander, T.W. 14, 15  
 Allen, E.O. 16  
 Allen, G.T. 17, 18  
 Allin, L.C. 19  
 Allman, C.H. 99, 1078  
 Allum, M.O. 56  
 Althen, C. 1029  
 Alvoid, W. 198  
 American Rivers 20, 21  
 Andersen, D.L. 263  
 Andersen, J.L. 1676  
 Anderson, A.G. 1752  
 Anderson, B. 22  
 Anderson, B.W. 872  
 Anderson, C.S. 1207  
 Anderson, D.B. 23  
 Anderson, D.O. 24  
 Anderson, S.B. 25  
 Andrews, A.K. 186  
 Andrews, L.S. 889  
 Anklam, F.M. 26  
 Annambhotla, V.S.S. 27  
 Anonymous. 28, 29, 30, 31, 32, 33,  
 34, 35, 36, 37, 38, 39  
 Applegate, R.L. 617, 1213  
 Armitage, K.B. 40  
 Arvidson, R.E. 859  
 Asafo, C.K. 41  
 Ashton, G.D. 42  
 Atchison, G.J. 43, 1573, 1574  
 Atwater, M.G. 44, 2183  
 Auble, G.T. 45, 1618  
 Audubon, M.R. 46  
 Bach, R.N. 47  
 Bachant, J.B. 48  
 Bachmann, R.W. 43, 73  
 Backes, K.M. 49, 50  
 Backlund, C.A. 51, 52  
 Bailey, R.M. 53, 54, 55, 56, 57  
 Baker, C.D. 58, 1591  
 Baker, J.C. 59  
 Baldwin, K. 60, 61  
 Baldwin, R. 791  
 Ballard, W.W. 62  
 Bandow, F.L. 63, 64  
 Banek, T.J. 65, 66, 1596  
 Bankhead, J.H. 67  
 Banks, H.O. 68  
 Bansal, M.K. 2215  
 Banwart, W.L. 69, 677  
 Barney, K.R. 70  
 Barnicol, P.G. 71  
 Barns, M.E. 72  
 Barnum, J.B. 43, 73  
 Barrett, C.B. 74  
 Baskett, R.K. 75, 586  
 Bates, P.D. 1679  
 Bathurst, J.C. 1370  
 Battaglin, W.A. 596, 597  
 Bauer, A. 558  
 Bauer, C.M. 76  
 Bauer, R.A. 290  
 Bauman, D.D. 1001  
 Baumgarten, R.A. 276  
 Baumhoff, R.G. 77  
 Bayley, P.B. 909, 1694  
 Bayne, C.K. 78, 79  
 Bazata, K.R. 263  
 Beal, C.D. 80  
 Beall, J.T. 1606  
 Beard, L.R. 469  
 Beavers, A.H. 81  
 Becic, J. 659  
 Beck, R.E. 82  
 Becker, C.D. 1598  
 Becker, D. 1090  
 Becker, D.A. 83  
 Becker, L.D. 84, 85  
 Beckman, L.G. 86, 87, 88, 89, 449,  
 906, 907, 908, 1256, 1258, 1259,  
 1260, 1314, 2061  
 Beer, C.E. 481  
 Beer, L.P. 90  
 Bell, T.N. 91, 92  
 Belt, C.B. Jr. 93  
 Bender, A.R. 94, 141  
 Bender, J.F. 1807  
 Bengtson, N.A. 95  
 Benson, N.G. 96, 97, 98, 99, 100,  
 101, 102, 103, 104, 292, 659, 704,  
 764, 779, 784, 860, 886, 929, 991,  
 1105, 1324, 1383, 1545, 1562, 1764,  
 2127  
 Berard, E.E. 105, 106, 107, 108,  
 109, 110, 111, 112, 113, 114, 115,  
 116, 117, 118  
 Berg, P.F. 119  
 Berg, R. 322  
 Berg, R.B. 120  
 Berg, R.K. 121, 122, 123, 565, 566  
 Berg, R.B. 2218  
 Berger, J.J. 1692  
 Berger, T. 412  
 Berkas, W.R. 124  
 Berlinger, S.S. 1721  
 Berner, L.M. 125, 126  
 Berry, C. 127  
 Berry, C.R. 425, 587  
 Berry, C.R. Jr. 128, 2105  
 Berryman, A.D. 129  
 Bertels, P.J. 130  
 Best, L.B. 538  
 Best, R.G. 191  
 Bettis, E.A. III. 131, 524  
 Bettross, E. 632  
 Beverly, L.B. 1312  
 Bhowmik, N.G. 132, 190  
 Bich, J.P. 133  
 Biddle, N. 134  
 Bielefeld, A.E. 135  
 Biggs, P. 842  
 Bills, T.D. 1050  
 Binkowski, F.P. 136  
 Biology Committee 137  
 Birhle, C. 138, 139, 140  
 Bischoff, J.H. 141  
 Bishop, C.G. 142  
 Bishop, G.A. 143  
 Bishop, L.M. 1456  
 Bishop, R. 144, 145  
 Black, V. 146  
 Blair, R.M. 147  
 Blankenship, L. 217  
 Blanton, W.C. 388  
 Blevins, D.W. 939, 2221  
 Bliss, Q.P. 148, 149, 746  
 Block, D.G. 150  
 Blomgren, C.V. 1439  
 Blout, B.W. 549  
 Bluemle, J.P. 151  
 Boehmer, R. 152, 153  
 Boland, T. 154  
 Bondurant, D.C. 155, 156  
 Boner, F.C. 157  
 Bonislavsky, P.S. 250  
 Borah, D.K. 158, 159, 160, 161, 162  
 Bordas, M.P. 1363  
 Borges, H.M. 1276  
 Borland, D. 1106

- Borodoloi, P.K. 159, 160  
 Boruff, C.S. 163  
 Bossert, P. 164  
 Botz, M.K. 174  
 Boughn, K.M. 762  
 Boussu, M.F. 165  
 Boussu, M.S. 6  
 Boussu, M.F. 1257  
 Bouzahr, A. 83  
 Bovee, K.D. 166, 1714  
 Bowden, C. 167  
 Bowie, J.E. 168  
 Boyd, D.R. Jr. 169  
 Brabander, J. 649, 747  
 Brackenridge, H.M. 170  
 Brackett, R.A. 171  
 Bradford, (?). 1093  
 Bradford, J.M. 172  
 Bragg, T.B. 173  
 Braico, R.D. 174  
 Braidech, T.E. 337  
 Brakhage, G.K. 175, 176, 177, 178, 179  
 Bramblett, R.G. 180, 181, 182  
 Brannon, M.A. 183  
 Branson, E.B. 184  
 Brashier, M.R. 400, 401, 796, 978, 979, 1616, 1617  
 Breimy, H.F. 185  
 Bretz, R.F. 1656  
 Breuninger, R.H. 120, 2218  
 Bridges, W.R. 186  
 Brinson, M.M. 187  
 Brinton, T.I. 1780  
 Broadhead, G.C. 188  
 Brobesong, A. 189  
 Brocard, D.N. 190  
 Brockhoff, M.D. 191  
 Brohman, M. 2231  
 Brohn, A. 192  
 Brooks, K.N. 366  
 Brophy, J.A. 889  
 Brosten, T.M. 959, 1651, 1652  
 Broughton, J. 2068  
 Brower, J.V. 193  
 Brown, C.J.D. 194, 195, 196, 197, 198, 199, 605, 606  
 Brown, D.J. 200, 201, 202  
 Brown, H.G. 2098, 2099  
 Brown, J.T. 203  
 Brown, M.T. 1581  
 Brown, R.E. 204  
 Brown, S. 187  
 Brownoski, M. 412  
 Brunner, C.W. 205  
 Brunsing, M.H. 206  
 Brunskill, G.J. 207  
 Bry, E. 208, 209  
 Bryan, J.D. 210  
 Bryan, S.D. 211, 212, 1039  
 Bryant, H.E. 213, 837  
 Buchmiller, R.C. 214, 215, 216  
 Bue, I.G. 217  
 Bugbee, S.L. 1760  
 Bulkley, J.W. 218  
 Bulkley, R.V. 573  
 Bunch, R.L. 1773  
 Burby, R.J. 219  
 Burchett, R.R. 220, 416  
 Burczynski, J. 1742, 1743  
 Burczynski, J.J. 221, 222, 223, 1744  
 Burgess, H. 2055  
 Burgess, H.H. 2056  
 Burgess, R.L. 224, 887, 927  
 Burgi, P.H. 225  
 Burke, T.D. 226  
 Burmeister, I.L. 23, 227  
 Burnham, M.W. 382  
 Burns-McDonnell Consultants 228  
 Burrell, R.M. 229  
 Burroughs, R.D. 230  
 Burton, J.S. 437  
 Burwell, R.E. 1614  
 Bush, J. 231  
 Bush, J.E. 1598  
 Business Research Bureau 232  
 Byrnes, D.J. 393  
 Cada, G.F. 233, 234, 235, 720  
 Caldwell, L.K. 236  
 Calkins, R.J. 237  
 Callender, E. 238, 239  
 Calow, P. 240  
 Camilli, E.L. 435  
 Camp, L.S. 241  
 Campbell, J.E. 1582  
 Campbell, K.B. 242  
 Campbell, R.B. 243, 244  
 Campbell, R.S. 245, 652, 1371, 2150, 2151  
 Campbell, T.M. 2090, 2091  
 Cannon, T. 1075  
 Caoile, J.A. 1556  
 Capparella, A. 246  
 Carbine, W.F. 247  
 Carlander, K.D. 248, 2048  
 Carlson, C.G. 94, 141, 249  
 Carlson, D.M. 250, 251, 252  
 Carlson, Kelly. 306  
 Carlston, C.W. 253, 254  
 Carminati, J.J. 255  
 Caro, C.R. 256  
 Carr, J.M. 257, 258, 777  
 Carriaga, C.C. 259  
 Carter, S.R. 260, 261, 262, 263  
 Carter, V. 342  
 Carty, D.G. 264  
 Carufel, L.H. 265, 266, 267, 268, 269, 270, 271  
 Carver, D.C. 272  
 Cary, L.E. 273  
 Casias, T.J. 276  
 Cass, E. 274  
 Cassel, J.F. 794  
 Cassidy, J.P. 763  
 Cassity, R.W. 275  
 Cast, L.D. 276  
 Cernohous, L. 277  
 Chaffin, G.R. 747  
 Chang, C.C. 1076  
 Chang, F.F.M. 278  
 Chang, H.H. 279, 635  
 Chang, L.H. 280  
 Chang, T. 281  
 Chantome, R.G. 1076  
 Chapman, B.C. 1384  
 Chappell, P.E. 282  
 Charbonneau, C.S. 1395  
 Chen, T.C. 525  
 Chenoweth, J.W. 1118  
 Cherko, I. 283, 284, 285, 286, 671, 1480  
 Childress, D.A. 287  
 Chittenden, H.M. 288  
 Chiu, C.L. 441  
 Chiu, F.Y. 1083  
 Chiu, S.Y. 2041  
 Christian, H. 1482  
 Christian, H.E. 129  
 Christiansen, C.C. 289  
 Christiansen, E.A. 1100  
 Chrzastowski, M.J. 290  
 Churchill, E.P. 291  
 Cieslik, L.J. 292, 1075  
 Claflin, T.O. 293, 294, 295  
 Clambey, G.K. 1382  
 Clamby, G.K. 296, 1382  
 Clancey, P. 297, 298, 299, 300, 933  
 Clancy, P. 1786  
 Clapp, J.R. 301  
 Clark, G.R.II. 302  
 Clark, W.B. 303, 304  
 Clausen, E.N. 305, 306, 307  
 Clawson, R.L. 538  
 Cleary, R.E. 308  
 Clothier, W.D. 198, 309, 310, 311, 312  
 Clugston, J.P. 1326  
 Coble, D.W. 313  
 Cochran, A. 314  
 Cocks, C.A. 315  
 Coelho, A.G. 1544  
 Cofrancesco, A.F. 316  
 Coker, R.E. 317  
 Colby, B.R. 318  
 Cole, N.K. 783, 784  
 Cole, T. 660  
 Collins, J.T. 357  
 Combs, L.J. 319  
 Condra, G.E. 320  
 Conover, D. 321

- Constan, K. 322  
 Cook, R.B. 835  
 Cooke, F. 530  
 Cool, K.L. 323  
 Coon, D.M. 324  
 Coon, M.S. 325  
 Coon, T.G. 201, 202, 326, 378  
 Cooper, C.M. 1639  
 Cooper, J.G. 327, 328, 329, 330, 331, 332, 333  
 Cooper, J.L. 334  
 Cooper, L.J. 1587  
 Cope, E.D. 335, 336  
 Coppage, D.I. 337  
 Cordes, R.J. 72  
 Costa, J.E. 338  
 Costa, P.B.A. 339  
 Cotroneo, G.V. 161  
 Coues, E. 340  
 Coupe, R.H. 341  
 Coutant, B. 392  
 Cowardin, L.M. 342  
 Cowell, B.C. 103, 343, 344, 345, 847  
 Cox, U.O. 475  
 Craighead, J.J. 346, 347, 348, 349  
 Craill, L.R. 350  
 Crandell, D.R. 351  
 Crane, W.R. 352  
 Crews, B. 353  
 Croft, M.G. 354  
 Croley, T.E.II. 582, 583  
 Crosby, O.A. 355  
 Cross, F.B. 57, 356, 357, 358, 359, 360, 361, 362, 363  
 Crouch, B. 364  
 Cruise, T.L. 1169  
 Cruse, K.C. 428  
 Culbertson, T.A. 365  
 Cunday, T.W. 366  
 Cunha, A.P. 1544  
 Curley, A. 367  
 Curtis, L.T. 1265  
 Cushman, F. 368  
 Cvancara, A.M. 369, 370  
 Cvancara, V.A. 371, 372  
 Dahl, A.R. 373, 594  
 Dahl, A.S. 374  
 Dahl, T.E. 375  
 Daly, S. 982  
 Damann, K.E. 376  
 Dames, H.R. 326, 377, 378  
 Damkot, D.K. 704  
 Dana Larson Roubal Associates 379  
 Darmstrader, J. 380  
 Dashputre, M.S. 161  
 Davey, J.C. 381  
 Davidson, M. 736  
 Davies, D.K. 9  
 Davis, D.W. 382  
 Davis, G.H. 383  
 Davis, G.H. 218  
 Davis, P.M. 384  
 Davis, P.N. 385  
 Davis, R.E. 386  
 Davis, S.E. 387  
 Davis, S.N. 78, 79, 391  
 Dawsey, J.V. 388  
 Dawson, J. 849  
 Dawson, L.H. 389  
 Day, T.J. 390  
 Dean, T.J. 391  
 Deaver, K. 392  
 Decker, W.L. 1620  
 Degens, E.T. 239  
 Delfino, J.J. 393  
 DeLuca, D.K. 404  
 Dennis, D.S. 852  
 Denoyelles, F.J. 358  
 Depman, A.J. 1448  
 Derksen, A.J. 242, 1026, 1765  
 Deutsch, M. 1450, 1603  
 Devore, L.A. 770  
 DeVoto, B. 394, 395  
 Dewey, M.R. 819  
 Dick, T.A. 822  
 Dickson, J.R. 543  
 Diggins, M. 153, 1088, 2192  
 Dillard, J.G. 396, 611, 1368, 1569, 1695, 2023  
 Diller, A. 397  
 Dillon, R.D. 647, 648  
 Dinan, J. 400, 978, 1617  
 Directorate of Licensing 398  
 Dirks, B. 399, 400, 401, 978, 1617  
 Dirks, B.J. 1616  
 Dixon, K.M. 402  
 Dodge, D.P. 777, 909, 1714  
 Dohrenwend, J. 859  
 Dolan, L.S. 403, 404  
 Dorband, W.R. 898  
 Doroshov, S.I. 136  
 Dorrough, W.G. 405, 1046, 1466, 1676  
 Dorrance, W. 406  
 Dort, W. 408  
 Dort, W. Jr. 407  
 Dortch, M.S. 1265, 1796, 1797  
 Dotson, H.W. 409  
 Dotson, P.A. 410  
 Douglas, C.H. 411  
 Dowd, D. 400  
 Dowlin, D.L. 412  
 Dowlin, L. 413  
 Dowling, J.D. 414  
 Dowling, J.D. 4  
 Drain, M.A. 415  
 Drake, E.T. 1430  
 Draves, J.D. 280  
 Dreeszen, V.H. 416  
 Dressman, R.C. 1013  
 Driever, S.L. 417  
 Drummond, S.T. 956  
 Dryer, M. 418, 975  
 Dryer, M.P. 419, 717  
 Duerre, D.C. 420, 421, 422, 423  
 Duffy, W. 321, 424, 467  
 Duffy, W.G. 128, 212, 425, 1039  
 DuMontelle, P.B. 290  
 Duncan, T.O. 426  
 Duncanson, H.B. 427  
 Dunlap, D.G. 428  
 Dunn, D.E. 429  
 Dunn, J.M. 430  
 Duprey, J.N. 431  
 Durum, W.H. 1047  
 Duyvenjonck, J. 432  
 Dyke, S.R. 433  
 Dynesius, M. 1279  
 East, J.H.Jr. 434  
 Ebert, J.I. 435  
 Echelle, A.A. 2180  
 Echelle, A.F. 2180  
 Eddy, S. 1377  
 Edge, W.D. 1328  
 Edman, J. 436  
 Edwards, J.P. 437  
 Ehrenberg, R.E. 438  
 Ehrhardt, E. 439  
 Eichelberger, J.W. 1013  
 Eide, I.H. 440  
 Einstein, H.A. 441  
 Eisel, L.M. 442  
 Eisma, D. 239  
 Eleeson, S.K. 898  
 Ellig, L.J. 443  
 Elliot, M.C. 444, 1467  
 Elliott, C.M. 1638, 2092  
 Ellis, D.H. 445  
 Elrick, K.A. 835  
 Elrod, J.H. 87, 88, 446, 447, 448, 449, 906, 908, 1314, 2061  
 Elsen, D. 1350  
 Elsen, D.S. 450, 451, 1351, 1352, 1471  
 Elser, A.A. 452, 453, 454  
 Elstad, S. 455  
 Elwood, P.H. 1583  
 Emerson, D.G. 456, 457  
 Emmett, L.F. 458, 459, 460, 461  
 Engel, K. 1814  
 Englebert, E.A. 68  
 Engstrom, S.I. 1390  
 Enyeart, G.W. 462, 463  
 Epstein, Bart.J. 1453  
 Erdei, J.F. 464, 680  
 Erdmann, A.L. 290  
 Erdmann, C.E. 465  
 Erickson, J. 466  
 Erickson, J.W. 467  
 Erickson, L.E. 480

- Erickson, R.E. 540  
 Erskine, C.F. 468  
 Erwin, M.J. 815  
 Espey, W.H. 469  
 Evenhuis, B.L. 470, 471, 472, 2073  
 Evenson, P.D. 931  
 Everett, S.R. 473  
 Evermann, B.W. 474, 475, 476  
 Faber, S. 477  
 Faflak, R.E. 478  
 Fajen, O.F. 479, 1400  
 Falk, C.R. 9  
 Fan, L.T. 480  
 Farnham, C.W. 481  
 Farrell, D.A. 172  
 Farrell, J.R. 482  
 Fassler, J.W. 1366  
 Fawks, E. 483  
 Fegert, C.R. 484  
 Feierabend, J.S. 75  
 Feit, D.E. 485, 1586  
 Feldman, A.D. 405  
 Ferguson, G.W. 1216  
 Ferguson, J.A. 1313  
 Ferreira, I.C. 486, 487, 1035  
 Ferrell, J.R. 488  
 Fielder, D. 489, 490, 491, 492, 874, 875, 1491, 1745, 2153  
 Fielder, D.G. 493, 494, 632  
 Fielding, (?) 1093  
 Fine, L.O. 141  
 Finger, T.R. 495  
 Fischenich, J.C. 496  
 Fischer, H.B. 497, 2213  
 Fisher, H.J. 498, 499  
 Fitch, G. 500  
 Flack, J.E. 501  
 Flammer, G.H. 1752  
 Flannagan, J.F. 502  
 Flannagan, P.M. 502  
 Fleckenstrin, J. 503  
 Fleener, G.G. 504, 2127  
 Flint, R.F. 505  
 Fogle, N.E. 506, 507, 508, 509, 510, 511, 512, 513, 514, 515  
 Foley, R. 936  
 Fontane, D.G. 487, 592, 660, 1031, 1075, 1090, 1369, 1499, 1500, 1814  
 Ford, D.T. 516  
 Ford, J.C. 517, 518  
 Ford, R.C. 519, 520  
 Foreman, T.L. 381, 521, 522, 523  
 Forman, S.L. 524  
 Foster, E.T. 525  
 Fowler, R. 526  
 Fowler, R.M. 527  
 Fox, A.C. 617  
 Fox, P.P. 528  
 Fraley, J.J. 529  
 Francis, C.M. 530  
 Franklin, D.R. 531  
 Frazer, A.G. 560  
 Frazer, K. 532  
 Frazier, A.G. 559, 1812, 432, 559, 745, 881, 1681, 1787, 1812, 2212  
 Frazier, J.W. 1453  
 Frederick, K.D. 533, 534  
 Fredericks, J.P. 535  
 Fredrickson, L.F. 191, 536  
 Fredrickson, L.H. 537, 538, 539, 627, 992, 1721  
 Freeman, G.E. 540  
 Freeman, W. 541  
 Freiburger, C. 542  
 Frest, T.J. 543  
 Frey, D.G. 1234  
 Friberg, D.V. 544, 545, 546, 547  
 Friedman, J.M. 45, 548, 1618  
 Friis, H.R. 549  
 Frisina, M.R. 550  
 Fritzen, D. 1106  
 Fuchs, E.H. 551  
 Funk, J.L. 552, 553  
 Gabel, J.A. 554, 555, 556  
 Gabelhouse, D.W. Jr. 557  
 Gabelhouse, K. 412  
 Gagnon, J.J. 2209  
 Gailley, J.E. 558  
 Galat, D.L. 559, 560  
 Galat, David.L. 432, 560, 745, 881, 1681, 1787, 1812, 2212  
 Gale, L.R. 561  
 Gale, R.W. 1395  
 Gall, G.A.E. 1030  
 Galtsoff, P.S. 562  
 Garbarino, J.R. 1780  
 Gardner, C.H. 563  
 Gardner, W.M. 49, 50, 564, 565, 566, 567, 568, 569  
 Gardner, W.S. 1582  
 Garlasco, C.C. 570  
 Garrett, P. 924  
 Garrison Diversion Unit Commission 571  
 Garvey, Roy. 307, 478, 674  
 Gasaway, C.R. 572, 573  
 Gass, P. 574  
 Gastler, G.F. 575  
 Gaylord, C.K. 1352  
 Gee, G.W. 558  
 Geis, M.B. 576  
 Gelwicks, G.T. 577  
 Geo-Marine, Inc. 578  
 Gerlek, S. 711  
 Gessler, J. 159  
 Getches, D. 579  
 Giaquinta, A.R. 580, 581, 582, 583, 584  
 Giassley, J. 1814  
 Gieseke, L.F. 585  
 Giessman, N.F. 586  
 Gilbraith, D.M. 587  
 Gillespie, D.M. 588  
 Gillespie, G.A. 1216  
 Gillett, B.E. 589  
 Gillette, R. 590  
 Girard, C. 591  
 Gjesdahl, D.P. 592  
 Glass, D.J. 1657  
 Glenn, J.L. 593, 594  
 Glymph, L.M. 595  
 Glysson, G.D. 1637  
 Goldbach, J.C. 711  
 Golet, F.C. 342  
 Goolsby, D.A. 341, 596, 597, 598  
 Gorman, R.F. 851  
 Goudzwaard, J. 412  
 Gould, G. 599, 600, 1597  
 Gould, W.R. 601, 602, 603, 604, 605, 606  
 Grabowski, S.J. 1050  
 Grace, T.B. 607, 608, 609, 610, 1401  
 Graham, K.L. 396, 611, 1368, 1569, 2023  
 Graham, L.K. 1695  
 Graham, R.J. 612  
 Grannemann, N.G. 613, 614  
 Greene, E.A. 615  
 Greene, F.C. 616  
 Greichus, Y.A. 617  
 Grewe, A.H. 618  
 Gries, J.P. 2177  
 Griffith, C.R. 619  
 Grisak, G.G. 620, 621  
 Grisamore, S.B. 622  
 Groen, C.L. 623, 624, 1597  
 Groenwold, J.R. 625  
 Grondahl, C. 1423  
 Grossman, E.M. 932  
 Groton, R.D. 83  
 Grover, J.H. 626  
 Gruenhagen, N.M. 627  
 Gruntfest, E. 628  
 Gulf Oil Corp 629  
 Gumley, L.E. 630  
 Guthrie, P.A. 631, 1669  
 Guy, C. 632, 2167  
 Haas, M.A. 633  
 Hachmeister, L. 1075  
 Hageman, R.K. 531  
 Hale, J.B. 538  
 Hales, D.C. 1551, 1552, 1553, 1554  
 Hall, B.R. 634, 635  
 Hall, C.B. 636  
 Hall, G. 272  
 Hall, G.E. 1410  
 Hall, G.E. 88, 448, 901, 1158, 1557, 2081, 2088  
 Hall, J.F. 272  
 Hallberg, G.R. 637, 638  
 Holloway, H.L. Jr. 296, 1382

- Halseth, R. 639  
 Hamilton, E.W. 640, 641  
 Hamilton, R.N. 642  
 Hamilton, T.M. 643  
 Hamlett, S. 849  
 Hammond, R.H. 1656, 1656, 2186  
 Hanback, M. 644  
 Handelsman, S.D. 851  
 Hankinson, T.L. 645  
 Hannon, M.R. 617  
 Hansen, M.D. 646, 647, 648  
 Hansen, R. 649  
 Hansmann, E.W. 615  
 Hanson, J.M. 650  
 Hanson, R.L. 1067  
 Hanson, W.D. 651, 652  
 Hanson, W.R. 653  
 Hanten, R.L. 654, 655, 656, 657  
 Hanzel, D.A. 658  
 Haque, M.I. 1046  
 Harbaugh, J.M. 638  
 Harberg, M. 660  
 Harberg, M.C. 292, 659, 1411  
 Harlan, J.R. 661  
 Harlen, J.R. 662  
 Harmata, A.R. 663  
 Harris, E. 664  
 Harris, J.B. 68  
 Harris, J.W. 1453  
 Harris, M.E. 665  
 Harrison, A.S. 666, 667, 1636  
 Harrison, H.M. 668, 669  
 Harrison, W.F. 1659  
 Harrow, L.G. 720, 1480, 1587  
 Harrow, Lee.G. 283, 284, 285, 286, 670, 671, 672  
 Hart, Henry.C. 673  
 Hartman, J.H. 674  
 Hartung, H.O. 675, 680  
 Hartung, R.L. 1760  
 Harvey, E.J. 1673  
 Harwood, D.G. 676  
 Haslouer, S.G. 359  
 Hassett, J.J. 69, 677  
 Hassler, T.J. 447, 448, 678, 679  
 Hatcher, M.P. 680  
 Hausle, D.A. 681  
 Hauth, L.D. 682  
 Haverland, P. 683  
 Haverland, P.S. 252  
 Hawes-Davis, D. 684  
 Hawnn, A. 592  
 Hayden, F.V. 685, 686, 687, 688, 689, 690, 691, 692, 693  
 Hayes, J.R. 694  
 Hazelwood, D.H. 1813  
 Headrick, F.D. 866  
 Heaney, J.P. 1408  
 Hearn, B.C. Jr. 695, 696, 697  
 Heaton, J.R. 698  
 Heckel, M.C. 699  
 Heckman, W.L. 700  
 Hedman, E.R. 701, 702, 1343  
 Heimann, D.C. 703  
 Heimstra, N.W. 704  
 Heinemann, H.G. 481  
 Heinrich, W.R. 663  
 Heins, D.C. 362  
 Heins, David.C. 495, 1401  
 Held, J.W. 705, 706  
 Helms, D.R. 707  
 Heman, M.L. 708  
 Hembree, C.H. 709  
 Hemman, L. 849  
 Henderson, C. 710, 857  
 Hendricks, D.W. 711  
 Hendrickson, J.C. 455, 712, 713, 714, 715, 998, 1353, 1424, 1425  
 Hendrickson, M.C. 415  
 Henegar, D.L. 716  
 Heneger, D. 1158  
 Henkes, W.C. 842  
 Hennessey, L. 717  
 Henry, C.J. 718, 933  
 Henry, N. 1338  
 Hensley, C.P. 2098  
 Hergenrader, G.L. 234, 235, 258, 263, 482, 719, 720, 721, 746, 748, 774, 775, 1459, 1475, 1676, 1807, 1816  
 Heritage Conservation and Recreation Service 722, 723  
 Herzog, B.L. 290  
 Hesse, L. 1106  
 Hesse, L.W. 263, 289, 292, 482, 560, 659, 720, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 886, 991, 1104, 1105, 1318, 1459, 1475, 1562, 1598, 1676, 1807  
 Hestbeck, J.B. 789  
 Hexom, G. 790  
 Hey, J. 60, 61, 791  
 Hey, Jane. 1811  
 Hey, R.D. 1370  
 Hibbard, E.A. 792, 793, 794  
 Hieb, R.N. 795  
 Higgins, D.G. 360  
 Higgins, K.F. 128, 400, 401, 796, 881, 978, 979, 1616, 1617, 2032  
 Higham, J.H. 797  
 Highland, D.J. 1258, 1259, 1260  
 Hildebrand, D.C. 798  
 Hill, J.C. 635  
 Hill, K. 799  
 Hill, L.G. 210  
 Hill, Tracy.D. 212, 1039  
 Hill, W.J. 800, 801, 802, 803, 804, 805, 806, 807, 808, 809  
 Hillerson, C. 1499  
 Hillman, W.P. 810  
 Hiltner, R.J. 811, 812, 813  
 Hipel, K.W. 2225  
 Hirsch, A. 1242  
 Hjelmfelt, A.T. Jr. 814, 1005  
 Hoar, A.R. 815  
 Hoffman, G.R. 816, 817, 994, 1715, 1716, 2052  
 Holden, C. 818  
 Holland-Bartels, L.E. 819  
 Holland, F.D., Jr. 1666  
 Holland, R.S. 1384  
 Holler, N.R. 820, 1058  
 Hollis, R.J. 766  
 Hollman, G.R. 1717  
 Holloway, H.L. Jr. 821, 822, 1346, 1762, 1763  
 Holloway, R.E. 415  
 Holly, F.M. Jr. 162, 823, 824, 825, 826, 827, 916, 917  
 Holmes, J.C. 828  
 Holton, G. 829  
 Holton, G.D. 830  
 Holz, D.D. 831  
 Hook, D. 322  
 Hopkins, J.C. 832  
 Hopkins, W.B. 833  
 Hora, M.E. 1026  
 Horner and Shifrin, Inc. 834  
 Horowitz, A.J. 835  
 Horpestad, A.A. 960  
 Hotchkiss, R.H. 415  
 Houghton, R.L. 836  
 Houser, A. 837, 1269  
 Houtcooper, W.C. 838  
 Howard, A.D. 839  
 Howe, R.C. 840  
 Howe, W.B. 78, 79  
 Howells, L.W. 841  
 Hroncich, M.J. 1336  
 Hubbard, C.R. 842  
 Hubbard, E.A. 843  
 Hubbs, C.L. 844  
 Hubbs, L.C. 844  
 Hubers, M.J. 2189  
 Hubert, W.A. 1635  
 Huckins, J.N. 1395  
 Hudson, P.L. 104, 345, 845, 846, 847, 848, 1326, 1560, 2088  
 Hufham, J.B. 849  
 Huizinga, R.J. 850  
 Hull, J.A. 1332, 1333, 1334, 1335, 1364, 1366  
 Hulman, B.D. 851  
 Hultgren, D.D. 852

- Humburg, D.D. 853  
Hunsaker, C.T. 280  
Hunt, C.E. 854  
Hunter, A.H., Jr. 1474  
Hunter, R. 412  
Huser, V. 854  
Hutzinger, T.L. 319  
Huval, C.J. 388  
Hydrologic.Engineering.Center.  
855, 856  
Imes, J.L. 1665  
Inglis, A. 710, 857  
Interagency Floodplain Management  
Review Committee Scientific  
Assessment and Strategy Team  
(SAST) 858  
Isu, E.O. 525  
Iverson, J.L. 341  
Izenberg, N.R. 859  
J. R.W. 1365  
Jackson, J.P. 860  
Jackson, R.S. 1500  
Jacobs, H.S. 861  
Jacobs, K.E. 1268, 2090, 2091  
Jacobson, M.A. 1653, 1654  
Jacobson, R.B. 1435  
Jain, S.C. 862, 863, 864  
Janklow, W. 865  
Janonis, B.A. 711  
Jarman, J.W. 990  
Jeffery, H.G. 458, 459, 460, 461  
Jenkins-Bartle, K.L. 866  
Jenkins, L.G. 932, 934  
Jenkins, R.M. 867, 868  
Jennett, J.C. 869  
Jennings, D.K. 870  
Jennings, M.J. 871  
Jennings, M.E. 190  
Jensen, C.W. 2106  
Jensen, L.D. 261, 950  
Jessen, R.L. 872  
Johannes, S. 873  
Johnson, A.I. 1665, 1766  
Johnson, B. 874, 875, 1114, 1491,  
1492, 1493, 1494, 1745, 2153  
Johnson, B.A. 493, 2189  
Johnson, B.T. 2210  
Johnson, D.F. 876  
Johnson, D.H. 877  
Johnson, D.R. 1364  
Johnson, H.E. 830  
Johnson, L.G. 878, 1204  
Johnson, R.E. 879  
Johnson, R.L. 880  
Johnson, R.R. 881  
Johnson, S.R. 83  
Johnson, T.R. 882  
Johnson, W.C. 224, 407, 883, 884,  
885, 886, 887, 888, 889, 927, 1473  
Johnson, W.L. 710, 857  
Jones, D.J. 890  
Jones, J.R. 2210  
Jones, K. 2218  
Jones, W.E. 891, 1624  
Jonkal, G.M. 892  
Jordan, D.S. 893, 894  
Jordan, P. 709  
Jordan, P.R. 895, 896, 897  
Jordan, W.M. 1430  
Jorgensen, D.G. 701  
Jorgensen, R.A. 898  
Joseph, T.W. 899  
June, F.C. 87, 449, 900, 901, 902,  
903, 904, 905, 906, 907, 908, 1314,  
2061, 2099  
Junk, W.J. 909  
Kadlec, R.H. 205  
Kaiser, E.J. 219  
Kaiser, E.M. 1395  
Kaiser, G.L. 2088  
Kallemeyn, L.W. 910, 911, 912, 913,  
914  
Karadi, Gabor.M. 1270  
Karim, M.F. 162, 823, 824, 827,  
915, 916, 917, 918, 919  
Karnitz, K.S. 920  
Karp, W.A. 2029  
Kasman, M.L. 1651, 1653, 1654  
Kassner, H.A. 921  
Kastner, W.M. 702, 922  
Katherine, J.W. 923  
Kauffman, K. 924  
Kawatski, J.A. 925  
Kaye, F.W. 438  
Keammerer, W.R. 224, 887, 926,  
927  
Keefer, T. 928  
Keenlyne, K. 649  
Keenlyne, K.D. 425, 777, 929,  
930, 931, 932, 933, 934, 935, 1561,  
2152  
Keirn, M.A. 1669  
Keleher, G.G. 207  
Keller, W.D. 936  
Kelly, B.P. 937, 938, 939  
Kelmelis, J.A. 540, 1812  
Kelsch, S.W. 940  
Kemmis, D. 941  
Kemmis, T.J. 131, 524  
Kempe, D. 239  
Kemper, G.B. 942  
Kendall, R.L. 943, 1253  
Kendle, E.R. 944, 945, 946, 2095  
Keng, T.T.C. 584  
Kennedy, J.F. 917, 918, 919, 1320,  
1578  
Kentula, M. 1006  
Kepler, Jack.E. 947  
Kesel, R.H. 948  
Killey, M.M. 290  
Kilpatrick, F.A. 383, 949  
King, M.D. 630  
King, R.G. 720, 950, 951, 952, 953  
Kirby, M.E. 954  
Kirby, W.H. 540  
Kissinger, G. 924  
Kitanidis, P.K. 955  
Kitchen, N.R. 956  
Klammer, J. 749, 771  
Knapp, E.L. 957  
Knapp, H.V. 958  
Knapton, J.R. 959, 960, 1651, 1652,  
1653, 1654  
Knight, D.E. 1404  
Knight, D.K. 961  
Knight, S.S. 1639  
Knowles, C.J. 244, 1042  
Knox, J.C. 962  
Knudson, R. 963  
Koch, Neil.C. 964, 965  
Kohler, C.C. 1635  
Kohler, S.L. 1694  
Koopersmith, C. 966  
Koopersmith, C.A. 967  
Kopchynski, D.M. 1169  
Koppelman, J.B. 968  
Koth, R. 1562  
Kovisaars, L. 851  
Kozel, D.J. 969, 970  
Koziol, L. 787, 788  
Krakowiecki, J.M. 971  
Kramer, R.L. 869  
Kreft, B.L. 1424  
Kreil, A. 972  
Kreil, R. 973, 974, 975, 1426  
Krieger, D.A. 229  
Krieger, R.A. 709  
Kristjanson, K. 976  
Kritsky, D.C. 1001  
Krizek, R.J. 1270  
Kruse, C. 400, 401, 978, 979  
Kruse, C.D. 977, 1617  
Kuehl, N. 980  
Kunkel, K.E. 981  
Kuo, Chin.Y. 1797  
Kupsch, W.O. 1100  
Kusler, J. 1006  
Kusler, J.A. 736, 982  
Kutkuhn, J.H. 89  
L.W.Hesse. *et al.* 1587  
Lambing, J.H. 1652  
Landa, V. 502  
Landin, Mary.C. 1682  
Lane, C.E. Jr. 156, 345, 1235, 1261  
Lane, E.W. 983  
Lane, R.W. 955  
Langemeier, R.N. 984, 1198, 1199,  
1200, 1201, 1202  
Langer, W.H. 985  
Lapka, J.K. 986  
Lara, O.G. 955, 987  
LaRocque, G.A. Jr. 988



- Laroe, E.T. 342  
Larson, W.E. 172  
Lass, W.E. 989  
Lathrop, G.N. 990  
Latka, D.C. 660, 991, 1267, 1814  
Laubhan, M.K. 537, 992  
Lawrey, J.D. 993, 994  
Lawson, M. 995  
Lawson, M.P. 549  
Lebo, J.A. 1395  
Lee, J.D. 713, 714, 715, 996, 997, 998, 1425  
Lee, L.J. 999  
Leenheer, J.A. 1458  
Lehman, L. 781, 782  
Lehmer, D.J. 1000  
Leiby, P.D. 1001  
Leidy, J. 1002  
Leik, M. 1003  
Leitch, J.A. 1004  
Leitch, W.G. 207  
Lemke, R.W. 465  
Lenau, C.W. 814, 1005  
LeRoux, E.F. 8  
Levine, D.A. 1006  
Levine, M.D. 1007  
Levings, G.W. 1008  
Lewis, H.S. 263, 482, 720, 746, 748, 774, 775, 1459, 1475, 1676, 1807  
Lewis, M. 303, 304, 1009  
Lewis, W.M. 548  
Lewotsky, K. 1010, 1011, 1012  
Li, Ta.M. 851  
Lichtenberg, J.J. 1013  
Liebelt, J.E. 1014, 1015, 1016, 1017, 1018, 1019, 1020  
Lind, O.T. 245  
Lind, W.E. 1216  
Linder, W.M. 1021  
Lindmeier, J.P. 872  
Litchfield, D.K. 1022  
Littell, B. 289  
Livesey, R.H. 27, 156, 1023  
Lloyd, G.D. Jr. 1024, 1025  
Loch, J.S. 1026, 1765  
Lock, R.A. 1027  
Logan, Leon.D. 1028  
Long, L.I. 589  
Longbottom, J.E. 1013  
Lord, W.B. 1029  
Lott, J. 2153  
Loudenslager, E.J. 1030  
Love, C.E. Jr. 1612  
Loveless, R. 1031  
Lovell, C.W. 276  
Lowe, T.W. 1032  
Lu, J.Y. 1033  
Lucas, R. 980  
Ludlow, W. 1034  
Ludvigson, G.A. 2185, 2186  
Ludvigson, Greg.A. 1656, 2186  
Luebke, F.C. 438  
Lugo, A.E. 187  
Lund, J.R. 486, 487, 1035  
Lyden, R.S. 1036  
Lynk, J. 1037, 1038  
Lynott, S.T. 1039  
Lynott, S.T. 212  
M.M.Olson. 2139  
MacCarthy, P. 10  
MacGregor, G. 368  
Mackie, R.J. 1040, 1041, 1042  
Maderak, M.L. 1043  
Madsen, D.B. 9  
Madsen, T.I. 1044  
Madson, J. 1045  
Mahahon, J. 2192  
Mahmood, K. 1046  
Malcolm, R.L. 1047  
Maley, R.D. 2222  
Maley, R.D. 2221  
Marcoux, R.G. 1048  
Margenau, T.L. 1049  
Marking, L.L. 1050  
Markovchich, D.J. 341  
Marrone, G. 222  
Marrone, G.M. 221, 223, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 2025, 2026, 2027, 2028, 2029  
Marsden, H.M. 820, 1058  
Marshall, W.H. 217  
Marston, Ed. 1059, 1060  
Martin, C. 2205  
Martin, D.B. 1061, 1062, 1063, 1064, 1065, 1258, 1259, 1260, 1311  
Martin, D.W. 58  
Martin, D.B. 1165  
Martin, J.H. 1066  
Martin, R.O.R. 1067  
Martindale, J.D. 48  
Martyn, H.A. 1068, 1069  
Marx, D.B. 1106  
Masters, J.M. 290  
Matter, R.M. 1669  
Matthai, H.F. 1070  
Matthes, W.J. 1613  
Matthews, W.J. 362, 495, 1401  
Mattson, C.D. 1071  
Mausback, M.J. 540  
Maxwell, J.C. 1072  
Maxwell, S.J. 935, 1691  
May, J.R. 1073, 1074  
Mayes, R.A. 888  
Mayne, K. 1660  
Mays, L.W. 259  
McAllister, R.F. Jr. 292, 1075  
McCarthy, T. 154  
McCaskie, S.L. 1076  
McCaull, J. 1077  
McClendon, E.W. 1078  
McComish, T.S. 1079, 1080  
McCraw, J.T. Jr. 1592  
McCreery, T.P. 1081  
McDaniel, G. 1082  
McDonald, D. 90  
McDougle, H.C. 2056  
McElroy, A.D. 1083  
McGinnis, D.F. Jr. 1603  
McGregor, L.K. 713, 714, 715, 1424  
McGuire, D.L. 1084  
McKenna, M.G. 1085, 1086  
McKinney, Ross.E. 2038  
McKirdy, H.J. 1087  
McKnight, Diane.M. 10  
McLellan, J.F. 889  
McMahon, J. 1088  
McMurtrey, D. 169  
McPhillips, E.N. 1660  
McPhillips, K. 1089  
McPhillips, N. 400  
McQuivey, R.S. 928  
McShane, C. 1090  
Means, J.C. 69, 677  
Meany, J.J. 1091  
Medvick, P.A. 1404  
Meek, F.B. 693  
Meek, S.E.(?). 894, 1092, 1093  
Meester, R.J. 1094, 1095  
Melcher, N.B. 1365  
Mellema, W.J. 666, 667, 825, 1096, 1097, 1636  
Melsheimer, E.S. 1098, 1099  
Melton, E.D. 1737  
Meneley, W.A. 1100  
Mengel, L.J. 1062  
Menzel, R.G. 1101  
Meredith, L.P. 1102  
Mero, S.W. 1103  
Mestl, G.E. 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 777, 991, 1104, 1105, 1106, 2231  
Metcalf, A.L. 361  
Meyer, F.P. 1107  
Michaletz, P. 222, 1114  
Michaletz, P.H. 223, 1108, 1109, 1110, 1111, 1112, 1113  
Midwest Research Institute 1115, 1116  
Milewski, C.L. 881, 2168  
Milhous, R.T. 1714  
Miller, Barry.B. 524  
Miller, D. 2074  
Miller, D.E. 1117, 1673  
Miller, D.G. 1118  
Miller, E.D. 1119, 1120, 1121, 1122  
Miller, G.L. 1123  
Miller, L.M. 1124  
Miller, R. 844  
Miller, R.P. 921  
Miller, T.K. 1125  
Milligan, C.F. 1430  
Millsop, M.D. 1126, 1468, 1469

- Minter, K.W. 1216  
Missouri Basin Field Committee 1127  
Missouri Basin Inter-Agency Committee 1128  
Missouri Basin States Association 1129, 1130, 1131, 1132, 1133, 1134, 1135  
Missouri Department of Conservation 1136, 1137  
Missouri Department of Natural Resources 1138  
Missouri-Oahe Projects Office 1139, 1140  
Missouri River Basin Commission 1141, 1142, 1143, 1144  
Missouri River Basin Region Water Resources Research Institutes 1145  
Missouri River Basin Studies 1146  
Missouri River Centennial Commission 1147  
Missouri River Commission 1148, 1149  
Mitchell, J.L. 1150, 1151  
Mizzi, J.E. 1152  
Mochalski, J.C. 1606  
Modde, T.C. 1153, 1154, 1155  
Modesitt, D.E. 1156, 1216  
Moen, C. 2068  
Moen, T.E. 1157, 1158  
Monda, D.P. 1159  
Monroe, D.M. 1160  
Montague, Ashley. 397  
Montana Department of Fish and Game 1161, 1162, 1163  
Montgomery, V.E. 2063  
Moody, J.A. 1164  
Moore, D.G. 1165  
Moore, G.A. 1166  
Moore, J.N. 1576  
Moos, R.E. 1167, 1168  
Morais, D.I. 213  
Moretti, C.J. 1169  
Moring, J.R. 1170  
Morris, J. 1172  
Morris, J.W. 1171  
Morris, L. 1172  
Morris, L.A. 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1338  
Morris, R.L. 1204  
Morrison, B.H. 684  
Morrison, R.B. 1205  
Morton, J.M. 1606  
Mosbaugh, H.F. 1206  
Moss, R.E. 362, 1207  
Moulton, G.E. 438, 1208  
Moxon, A.L. 575  
Mueller, G. 1209, 1210  
Muir, C.D. 1216  
Mulan, J.W. 1211  
Mullan, J.W. 1212, 1213  
Muncy, R.J. 573  
Munger, P.R. 1214, 1216  
Munger, P.R. *et al.* 1215  
Murphy, B. 639, 2167  
Musyl, M.K. 1217, 1596  
Mutchler, L. 153  
Mutel, C.F. 1218  
Muth, R.T. 1219  
Myers, Karla.A. 1220  
Nakato, T. 1221  
Nalco Environmental Sciences 1222  
Namminga, H.E. 1223  
Nanda, S.K. 540  
Nasatir, A.P. 1224  
National Weather Service Central Region 1225  
Nealson, P. 1746  
Nebraska Game & Parks Commission 1226, 1227  
Needham, R.G. 62, 1228, 1229, 1230, 1231, 1232, 1233  
Neel, J.K. 680, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242  
Neihardt, J.G. 1243  
Neill, W.H. 210  
Nelson, E.A. 1600  
Nelson, E.R. 1374  
Nelson, G.L. 1244  
Nelson, J.C. 2212  
Nelson, P.H. 1245, 1246  
Nelson, R. 975  
Nelson, W.R. 1123, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1718, 2089  
Nervik, O. 1263  
Nestler, J.M. 991, 1264, 1265, 1266, 1267, 1268, 2091  
Netsch, N.F. 1269  
Neuberger, J.W. 1270  
Newcomb, B. 771, 785, 788  
Newcomb, B.A. 767, 768, 769, 770, 786, 1271, 1272, 1273  
Newcomb, S. 772  
Newell, R.L. 570, 631  
Newlin, Joe. 924  
Newman, J.R. 1669  
Newson, M. 1274  
Newton, J.P. 525  
Nichols, R.L. 1275  
Nicholson, A.J. 1276  
Nicholson, H.P. 1242  
Nickum, J.G. 43, 1277  
Niehus, C.A. 1278  
Nietzel, D.A. 1598  
Nilsson, C. 1279  
Noble, T.D. 1280  
Nord, A.E. 1281, 1282  
North Dakota Game and Fish Department 1283, 1284, 1285, 1286, 1287, 1288, 1289  
North Dakota Governor's Water Strategy Task Force 1290  
North Dakota Parks and Recreation Department 1291, 1292  
North Dakota State Game and Fish Department 1293  
North Dakota State Health Department 1294  
North Dakota State Outdoor Recreation Agency 1295  
North Dakota State Water Commission 1296, 1297, 1298, 1299, 1300  
Northern Great Plains Resource Committee 1301, 1302, 1303, 1304  
Northern Great Plains Resources Program 1305  
Northern Lights Institute 1306, 1307  
Norvak, P.F. 1203  
Novacek, J.M. 1308  
Novak, J.T. 237  
Novotny, J.F. 914, 1062, 1063, 1064, 1065, 1268, 1309, 1310, 1311, 2090, 2091  
Nunnally, Nelson.R. 1312  
Nuttlemann, T.L. 766  
O'Brien, M.J. 1313  
O'Brien, P.A. 763  
O'Bryan, G.K. 87, 449, 906, 907, 908, 1065, 1314, 2061  
O'Connor, H.G. 78, 79  
O'Keefe, M.D. 1316  
O'Keefe, M.D. *et al.* 1315  
Oates, D. 1317, 1318  
Oates, D.W. 773, 1106, 1621  
Ode, J.J. 838  
Odgaard, A.J. 1319  
Odgaard, J.A. 1320  
Oetting, R.B. 1026  
Office of Missouri River Basin Studies 1321, 1322  
Ohnstad, D.L. 1323, 1324  
Oklahoma University at Norman 1325  
Olinger, C. 3  
Oliveira, R. 1544  
Oliver, J.L. 1326  
Olsen, R. 1327  
Olson, E.R. 2187  
Olson-Edge, S.L. 1328  
Oltman, R.E. 318, 1329  
Omaha Council Bluffs Riverfront Development Committee 1330  
Omaha Public Power District 1331

- Omang, R.J. 1332, 1333, 1334, 1335, 1366  
 Onesti, L.J. 1125  
 Onishi, Y. 1336  
 Opheim, B.R. 1337  
 Orazio, C.E. 1395  
 Orr, O.E. 1338  
 Orsborn, J.F. 99, 1078  
 Ortiz, G.A. 1339  
 Osberg, B.L. 1340  
 Osborn, G. 1341  
 Osborne, L.L. 1694  
 Osterberg, D. 1342  
 Osterkamp, W.R. 1343, 1344  
 Oswald, R.A. 1345  
 Ottinger, C.A. 822, 1346  
 Over, W.H. 291  
 Overton, J.H. 67  
 Owen, A.K. 1354  
 Owen, J.B. 296, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1382, 1427, 1428, 1429, 1472, 2073, 2074, 2075, 2076, 2169  
 Paily, P.P. 1358  
 Pallo, M.S. 1359  
 Pappas, C.D. 1360  
 Pappas, L.G. 1360  
 Park, I. 864  
 Parkens, C.K. 1361  
 Parker, G.L. 1362  
 Parker, R.S. 1363  
 Parrett, C. 273, 1332, 1333, 1334, 1335, 1364, 1365, 1366  
 Parsons, J.D. 1367  
 Pasch, W.P. 1368  
 Patenode, G.A. 1369  
 Patrick, D.M. 1370  
 Patterson, J.L. 711  
 Pattiarche, M.H. 1371  
 Pauken, R.J. Jr. 1372, 1373  
 Paulhus, J.L.H. 1374  
 Peck, S. 142  
 Pederson, G.L. 1780  
 Peeler, J.T. 1582  
 Penkal, R.F. 1375  
 Pennington, C.H. 229  
 Pennybaker, K.A. 1497  
 Perry, C.A. 1376  
 Person, J.A. 838  
 Personius, R.G. 1377  
 Persons, W. 1378, 1379  
 Persons, W.W. 1380  
 Persse, F.H. 1381  
 Peterka, J.J. 296, 1382  
 Peterman, L. 1383  
 Peters, E.J. 1384  
 Peters, J.C. 1385  
 Peterson, C.D. 1386  
 Peterson, C.L. 1387  
 Peterson, D.A. 1388  
 Peterson, D.E. 1389, 1390  
 Peterson, J.L. 389  
 Peterson, N.M. 1391  
 Peterson, S.A. 1392  
 Petrie, L.R. 168  
 Petsch, B.C. 1393  
 Petts, G.E. 240, 1394  
 Petty, J.D. 1395  
 Pflieger, W.L. 251, 252, 610, 1396, 1397, 1398, 1399, 1400, 1401  
 Phenicie, C.K. 1402, 1403  
 Philipp, D.P. 871  
 Phillips, G.R. 1404  
 Pick, L.A. 1405  
 Pickett, E.B. 1406  
 Pierce, D. 1407  
 Piest, R.F. 1614  
 Pietz, H.H. 364  
 Pipes, W.O. 90  
 Pitlick, J. 1408  
 Ploskey, G.R. 660, 1409, 1410, 1411, 1607  
 Poetner, H.G. 1412  
 Popalisky, J.R. 169  
 Posewitz, J.A. 1413, 1414  
 Potts, D.F. 496  
 Poulton, B.C. 1395  
 Power, G. 455, 1784  
 Power, G.J. 998, 1411, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1579, 2190, 2191  
 Prakash, S. 1452  
 Preud'homme, E.B. 1722  
 Prior, J.C. 1430  
 Pritchard, J.A. 1603  
 Protooupas, A. 190  
 Pruess, K.P. 1816  
 Pusateri, W.P. 1308  
 Pusc, S.W. 1431  
 Pyrah, D. 1432  
 Pyrah, D.B. 1433, 1434  
 Quade, D.J. 131  
 Rabeni, C.F. 1435  
 Rach, J.J. 1050  
 Rada, R.G. 1436, 1437, 2205  
 Rademacher, J.M. 1438, 1439  
 Ragan, J.E. 1440, 1441, 1442, 1443, 1444, 1445, 1446  
 Ragland, D.V. 1447  
 Rahn, P.H. 1448, 1449, 1450  
 Raney, E.C. 1501  
 Rango, A. 1450, 1603  
 Ranville, J.F. 1451, 1458  
 Rapp, R.J. 1452  
 Rasid, H. 1453  
 Rasmussen, J.L. 1454, 1635  
 Ratcliffe, B.C. 302  
 Rathbun, R.E. 1455, 1456  
 Ratzlaff, J.R. 408  
 Rauscher, W.L. 1457  
 Reece, J.D. 169  
 Reeff, M.J. 1545  
 Reel, J.R. 540  
 Rees, T.F. 1451, 1458  
 Reetz, S.D. 263, 482, 720, 746, 748, 774, 775, 1459, 1475, 1676, 1807  
 Rehwinkel, B.J. 1460, 1461, 1462, 1463  
 Reid, F.A. 538, 539  
 Reid, G.K. 1464  
 Reid, J.R. 444, 1465, 1466, 1467, 1468, 1469  
 Reigh, R.C. 1352, 1470, 1471, 1472  
 Reiley, P.W. 889, 1473  
 Reinfurt, J.E. 469  
 Reiskind, J. 1657  
 Reitz, H.M. 1474  
 Remnant, R.A. 242  
 Remus, J.I. 659  
 Repsys, A.J. 1475  
 Retelsdorf, L.A. 785, 786, 788  
 Revell, R.R. 1476  
 Reynolds, J.B. 1477, 1478  
 Rhoads, B.L. 1479  
 Rhodes, W.C. 828  
 Rhone, J.P. 1480, 1481  
 Richards, J.M. 703  
 Richardson, E.V. 129, 1482  
 Ridgeway, M.E. 1483  
 Riis, J. 467, 494, 874, 875, 1114, 2153  
 Riis, J.C. 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1745  
 Risotto, S.P. 1496  
 Ristau, S. 1056, 1057  
 Ritchey, J.D. 1497  
 Robbins, J.A. 238  
 Robbins, R. 1498  
 Robel, R.J. 1216  
 Roberts, R.C. 1499, 1500  
 Robins, C.R. 1501  
 Robinson, C.R. 203  
 Robinson, D. 1502, 1503, 1504, 1505, 1506, 1507  
 Robinson, J.W. 226, 378, 553, 560, 764, 777, 991, 1447, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542  
 Roby, R.N. 842  
 Rochford, D. 1543  
 Rockaway, J.D. 1544  
 Rockland, D.B. 1545  
 Rodrigues, L.F. 1544  
 Rogers, D.J. 1546  
 Rogers, G.D. 1475  
 Rohrke, M.J. 765  
 Rolfsmeier, S.B. 1547

- Rooke, A.D. 1099  
 Roosa, D.M. 1308, 1548  
 Roscoe, J.W. 1549  
 Rose, B.J. 1498  
 Rosen, R.A. 1550, 1551, 1552, 1553, 1554  
 Rothe, S.C. 659  
 Routh, R. 1555  
 Rude, J. 1090  
 Rudy, R.J. 1556  
 Ruelle, R. 718, 1557, 1558, 1559, 1560, 1561, 1562  
 Ruhe, R.V. 1563  
 Rumer, R.R. 161  
 Russell, G.W. 1351, 1352, 1355, 1564  
 Russell, J. 1565  
 Russell, T.R. 396, 611, 1198, 1199, 1200, 1368, 1566, 1567, 1568, 1569, 1695, 2023  
 Ryckman, F. 1425, 1570  
 Ryckman, L.F. 1571  
 Salinas, G. 541  
 Sampson, F.W. 179  
 Sandberg, B.S. 1468, 1469, 1572  
 Sandheinrich, M.B. 43, 1573, 1574  
 Sandholm, H. 1575  
 Sandholm, H.A. 1599, 1602  
 Sandvol, Alan.J. 419  
 Saul, G.E. 2091  
 Sauver, T.R.S. 2189  
 Savka, M.W. 1576  
 Sayler, R.D. 1577  
 Sayre, W.W. 27, 256, 1336, 1358, 1578, 2213  
 Scalet, C.G. 133  
 Scanlan, J.W. 1207  
 Scarnecchia, D. 49  
 Scarnecchia, D.L. 473, 1579  
 Schadewald, P.T. 1580  
 Schaefer, J.M. 1581  
 Schafer, M.L. 1582  
 Schaffner, L.W. 1583  
 Schainost, S. 485, 772  
 Schainost, S.C. 149, 770, 1584, 1585, 1586  
 Schatz, D.D. 1022  
 Scheuring, A.F. 68  
 Schilling, S.P. 985  
 Schlesinger, A.B. 263, 283, 284, 285, 286, 482, 671, 672, 720, 746, 748, 774, 775, 1459, 1475, 1480, 1481, 1587, 1676, 1807  
 Schmidt, B.R. 1588, 1589, 1590  
 Schmitz, E.H. 58, 1591, 1592, 1607  
 Schmudde, T.H. 1593  
 Schmulbach, J.C. 66, 600, 624, 776, 777, 925, 970, 1069, 1154, 1155, 1219, 1282, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601  
 Schmulbach, J.S. 1602  
 Schneider, K.E. 825  
 Schneider, L.T. 1266, 1267  
 Schneider, S.R. 1603  
 Schneideman, J.S. 1604  
 Schneiders, B. 1605  
 Schnick, R.A. 1606  
 Schram, M.D. 1607  
 Schreiber, D.I. 1608  
 Schroeder, C.H. 1609  
 Schroeder, E.E. 1610  
 Schrotke, P.M. 1389, 1390  
 Schuckman, J.J. 1600, 1611  
 Schueler, R.L. 1612  
 Schuetz, J.R. 1613  
 Schuh, W.M. 1632  
 Schuman, G.E. 1614  
 Schumm, S.A. 1728  
 Schuster, R.L. 1685  
 Schwalbach, M. 400, 401, 587, 978, 1615, 1616, 1617  
 Schwenk, J.S. 1452  
 Scott, D.F. 1004  
 Scott, D.O. 612  
 Scott, M.L. 45, 548, 1618  
 Scott, M.W. 1619  
 Scovell, J.T. 476  
 Scrivner, C.L. 1620  
 Scrivner, C.L. 59  
 Seabloom, R.W. 1085, 1086  
 Seeb, J.E. 1621  
 Seeb, L.W. 1621  
 Segelquist, C. 1386  
 Selgeby, J.H. 891, 1622, 1623, 1624  
 Senne, J.H. 1216, 1625  
 Sensenbaugh, P.P. 766  
 Senturk, F. 1626  
 Senturk, H.A. 1627  
 Severson, R.C. 598  
 Shane, E. 1811  
 Shanks, B.D. 1628, 1629  
 Shanks, C.E. 192  
 Sharik, T.L. 888  
 Sharp, J.M. Jr. 381, 522, 523, 614, 1630  
 Shattuck, B. 1631  
 Shaver, R.B. 1632  
 Shea, D.S. 1633  
 Shedenhelm, W.R.C. 1634  
 Sheehan, R.J. 1635  
 Sheets, W. 778  
 Shen, H.W. 1033, 1076, 1636, 1637  
 Shepherd, G.S. 1583  
 Shields, F.D. Jr. 1638, 1639  
 Shields, J.T. 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650  
 Shields, R.R. 1651, 1652, 1653, 1654, 1655  
 Shields, T.J. 515  
 Shirley, C.E. 1118  
 Shurr, G.W. 1656, 1657  
 Shurr, G.W. 1656, 2186  
 Sidle, J.G. 1659, 1660  
 Sidle, J.G. *et al.* 1658  
 Siebrass, H.H. 1661  
 Siefert, R.E. 1261, 1662, 1663, 1664, 1778  
 Signor, D.C. 1665  
 Sigsby, R.J. 1666  
 Simons, D.B. 1728  
 Simpich, F. 1667  
 Simpson, G. 1668  
 Simpson, P.W. 1669  
 Simpson, S.G. 1670  
 Sinning, J.A. 1277, 1671  
 Siouxland Metropolitan Planning Council 1672  
 Skaar, D.R. 1404  
 Skelton, J. 1673  
 Skinner, J.V. 1674  
 Slagle, S.E. 1675  
 Slizeski, J.J. 1676  
 Sloan, C.E. 1677  
 Slocum, N.E. 1316  
 Smalley, I.J. 81  
 Smith, B.J. 1678  
 Smith, C. 1679  
 Smith, C.C. 1216  
 Smith, J.W. 1680, 1681, 1682  
 Smith, L.M. 1370  
 Smith, L.R. 290  
 Smith, M. 1737  
 Smith, M.M. 1780  
 Smith, P.L. 1683  
 Smith, R.A. 239  
 Smith, R.H. 1684  
 Smith, R.M. 1685  
 Smith, R.J. 1544  
 Smithsonian Institution 365  
 Snow, D.R. 1316  
 Soil Conservation Service 1686  
 Soldan, T. 502  
 Soltero, R.A. 2206  
 Sonnichsen, J.C. 1390  
 South Dakota Conservation Digest 1687, 1688  
 South Dakota Department of Tourism 1689  
 Southall, J.B. 317  
 Southard, R.E. 1690  
 Sowards, C.L. 615, 1691  
 Sowl, J.H. 1692, 1693  
 Sparks, R.E. 909, 1694  
 Sparrowe, R.D. 1695  
 Spasojevic, M. 826  
 Speaker, E.B. 661, 662, 669  
 Speas, D.W. 1696  
 Spindler, J.C. 1697, 1698, 1699  
 Spomer, R.G. 1614  
 Spoon, R.L. 1700  
 Sprague, J.W. 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709,

- 1710  
 Sprey, P.M. 1711  
 Spurrel, F.A. 872  
 Srinivasan, P. 1712  
 Stadnyk, L. 1713  
 Stalnaker, C.B. 292, 659, 764, 779, 886, 991, 1105, 1562, 1714  
 Stanley, J.H. 1715  
 Stanley, L.L. 1716  
 Stanley, L.P. 1717  
 Starostka, V.J. 1718  
 Stasiak, R.H. 1719  
 Stauffer, K.W. 1720  
 Stauffer, T. Sr. 2148  
 Steele, R.V. 1007  
 Steenhof, K. 1721  
 Stefan, H.G. 1722  
 Steinwand, T. 1723  
 Stephen, J. 1724  
 Stephens, G.T. 1216  
 Stermitz, F. 157  
 Stern, C.D. 1725, 1726  
 Stern, D.H. 1216, 1727  
 Stern, M.S. 1216, 1727  
 Stevens, M.A. 1728  
 Stevens, O.A. 1729, 1730  
 Stevenson, H.R. 1731  
 Stewart, C. 1732  
 Stewart, E.M. 495  
 Stewart, K. 1789  
 Stewart, K.W. 242  
 Stewart, P.A. 49, 50, 568, 569, 1579, 1733, 1734  
 Stober, Q.J. 1735  
 Stockstad, D.S. 346, 347, 348, 349, 1736  
 Stoecker, M.A. 1737  
 Stone, B.D. 540  
 Stone, C. 494, 874, 875, 1114, 1491, 1495, 1562, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 2153  
 Stone, C.C. 1113, 1411, 1494 2025, 2026, 2027, 2028, 2029  
 Stott, D.F. 1657  
 Stout, D. 467  
 Stout, G.E. 218  
 Stout, T.M. 1750  
 Straub, L.G. 1751, 1752  
 Strauch, S. 1753  
 Struder, J.E. 1497  
 Strung, N. 1754  
 Struyk, R.J. 1755  
 Stucky, N.P. 860, 1682, 1756, 1757, 1758, 1759, 1760  
 Su, S.T. 1076  
 Sudduth, K.A. 956  
 Sullivan, J.K. 1612  
 Sutherland, D.R. 1761, 1762, 1763  
 Sveum, D.J. 1764  
 Swain, D.P. 1765  
 Swain, L.A. 1665, 1766  
 Swanson, G.A. 848, 1767, 1778  
 Swedberg, D.V. 1261, 1768, 1769, 1770, 1771  
 Swenson, F.A. 1772  
 Swink, W.D. 1268, 2090, 2091  
 Tabak, H.H. 1773  
 Tabor, V.M. 1774  
 Talent, L.G. 1775  
 Talsma, A. 657  
 Talsma, A.R. 1776, 1777  
 Taschl, A.K. 1216  
 Tash, J.C. 1778  
 Tatschl, A.K. 173  
 Taylor, G.H. 1779  
 Taylor, H.E. 1780  
 Taylor, M.W. 1781  
 Taylor, O.J. 1782  
 Temple, W.C. 1783  
 Tenney, B. 1784  
 Terkonda, R. 849  
 Tesar, M.A. 482  
 Tesch, J.E. 898  
 Tews, A. 933, 1785, 1786  
 Tharp, E.L. 1216  
 Theiling, C.H. 1787  
 Theler, J.L. 1788  
 Thilenius, C.A. 1789  
 Thomas, R.E. 1790  
 Thompson, D.M. 840  
 Thoreson, N.A. 1791  
 Thorne, C.R. 1370  
 Thorson, J.E. 1792, 1793, 1794  
 Throckmorton, C.K. 985  
 Thronblom, P.A. 766  
 Throson, J.E. 1316  
 Thurman, E.M. 597  
 Thvedt, K.L. 898  
 Tice, J.A. 563  
 Tillman, D.H. 1795, 1796, 1797  
 Tilstra, J.R. 833  
 Tippy, R. 1798  
 Todd, J.E. 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806  
 Todd, R.D. 1807  
 Toit, C. 1341  
 Tol, D. 1808  
 Tondreau, R. 1809, 1810, 1811  
 Tonner, M. 502  
 Tortorici, C.E. 1812  
 Tracy, B.H. 1813  
 Trail, L. 252  
 Tressler, R. 1090, 1814  
 Troelstrup, N.H. 721, 1816  
 Troelstrup, N.H. Jr. 1815  
 Trout, R.G. 1817  
 Troutman, B.M. 1164  
 Trzpuc, D.J. 1818  
 Tsai, F.Y. 635  
 Tubbesing, S.K. 1029  
 Tucker, S.J. 1819  
 Tunik, D.H. 1601  
 Tunink, D.H. 1820, 1821  
 Turner, R.E. 1496  
 Tuttle, J.R. 1822  
 Tuvel, Harry.N. 487, 592, 660, 1031, 1075, 1090, 1369, 1499, 1500, 1814  
 U.S. Army Corps of Engineers 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890  
 U.S. Army Corps of Engineers-Alexandria 1891  
 U.S. Army Corps of Engineers District, Omaha, NE. 1892, 1893  
 U.S. Army Corps of Engineers-Kansas City District 1894, 1895  
 U.S. Army Corps of Engineers-Missouri River Division 1896, 1897, 1898, 1899  
 U.S. Army Corps of Engineers-North Central Division 1900  
 U.S. Army Corps of Engineers-Omaha District 1901  
 U.S. Army Corps of Engineers-St. Paul District 1902, 1903, 1904, 1905, 1906  
 U.S. Bureau of Commercial Fisheries 1907  
 U.S. Bureau of Land Management 1908  
 U.S. Bureau of Outdoor Planning 1909  
 U.S. Bureau of Reclamation 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921  
 U.S. Bureau of Sport Fisheries 1922  
 U.S. Congress-House Committee on Government Operations 1923  
 U.S. Congress - House Committee on Interior and Insular Affairs Subcommittee on National Parks and Recreation 1924  
 U.S. Congress-Senate Committee on Public Works Subcommittee on Water Resources 1925  
 U.S. Department of the Interior 1926, 1927  
 U.S. Economic Research Service 1928  
 U.S. Environmental Protection

- Agency 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956  
 U.S. Federal Power Commission 1957  
 U.S. Federal Water Pollution Control Administration 1958, 1959, 1960  
 U.S. Federal Water Quality Control Administration 1961  
 U.S. Fish and Wildlife Service 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980  
 U.S. General Accounting Office 1981, 1982, 1983  
 U.S. Geological Survey 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991  
 U.S. National Park Service 1992  
 U.S. Public Health Service 1993, 1994, 1995, 1996, 1997, 1998  
 U.S. Soil Conservation Service 1999  
 U.S. Water Resources Council 2000, 2001, 2002  
 Umber, H. 2003  
 Underhill, J.C. 2004  
 Underhill, R.M. 2005  
 Union Electric Company 2006  
 United States Missouri Basin Survey Commission 2007  
 University of North Dakota 2008  
 Unkenholz, D. 777, 1113, 1114, 1411, 1491, 1554, 1745 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029  
 Upham, W. 2030  
 Urich, R. 367  
 Usgaard, R.E. 2031, 2032  
 Utter, F.M. 1621  
 Van Alstine, J.B. 370  
 Van Bruggen, T. 994, 2033  
 Van Doren, C.S. 2034  
 Van Eeckhout, G. 2035, 2036, 2037  
 Van Heuvelen, W. 2038  
 Van Wyhe, G.L. 2039  
 Van Zee, B.E. 2040  
 Vancil, R. 787, 788  
 Vandegrift, A.E. 2041  
 Vandel, G. 400, 2042  
 Vandell, G.M.III. 838  
 Van Den Avyle, M.J. 1410  
 Van den Berge, R.J. 2043, 2044, 2045  
 Vandenberg, P. 1316  
 Vandenberg, R.J. 2046  
 Vanderlee, B. 979  
 Vanderpuye, C.J. 2047, 2048  
 Vanderveen, B. 1716  
 Vanderveen, B.D. 2049  
 Vanicek, C.D. 2050, 2051  
 Vaubel, J.A. 2052  
 Vaughn, C.M. 2223  
 Vaughn, D.M. 417  
 Vaughn, J.A. 766  
 Vaught, R.W. 2053, 2054, 2055, 2056  
 Vertrees, R.L. 2057  
 Vestal, S. 2058  
 Vezirglu, T.N. 1625  
 Viessman, W. Jr. *et al.* 2059  
 Vincent, E.R. 2060  
 Vogel, D.A. 87, 449, 906, 907, 908, 1314, 2061  
 Vogle, L.E. 1269  
 Vohs, P.A. Jr. 2045  
 Volesky, D.F. 2062  
 Volk, A.A. 2063  
 Voogt, D.J. 2064  
 Voynick, S. 2065  
 W. C.M. 1439  
 Waage, K.M. 2066  
 Waara, T. 315, 2067  
 Waddle, T. 1265  
 Wagers, R. 2068  
 Waggoner, P.E. 1476  
 Wahl, K.L. 2069  
 Wahtola, C.H. Jr. 1356, 1357, 2070, 2071, 2072, 2073, 2074, 2075, 2076  
 Waite, L.A. 85, 2077, 2078  
 Walburg, C.H. 1062, 1262, 1268, 1771, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091  
 Wald, J.D. 456, 457  
 Walden, F.R. 990  
 Walker, E. 477  
 Wall, J.F. 2092  
 Wallace, C.R. 780, 781, 782, 2093, 2094, 2095  
 Wallace, W.C. 2221  
 Walling, D.E. 1363  
 Walsh, R. 2096  
 Walter, C.M. 2097, 2098, 2099  
 Walton, R. 1031  
 Walton, W.C. 2100  
 Wandsnider, L. 435  
 Wang, S.S.Y. 160, 1674  
 Wang, T.W. 278  
 Wang, W.C. 1637  
 Ward, F. 2101  
 Ward, J.V. 2102  
 Ward, L.F. 2103  
 Ward, N.E. III. 2104, 2105  
 Ward, R.E. 2106  
 Warner, D.W. 872  
 Warnick, D. 874, 875, 1114  
 Warnick, D.C. 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117  
 Warren, C.R. 2118, 2119  
 Warren, K. 2120, 2121  
 Water and Environment Consultants 2122  
 Weaver, J.E. 2123  
 Webber, K. 598  
 Weber, C.L. 2124, 2125  
 Weed, W.H. 2126  
 Wehde, M.E. 1165  
 Wei, T.C. 405, 1097  
 Weiss, L.S. 2069  
 Weithman, A.S. 2127  
 Welcomme, R.L. 2128  
 Welker, B. 2129, 2130, 2131, 2132, 2133  
 Wells, A.W. 2134  
 Wells, E.A. 570, 631, 852  
 Wells, J.V.B. 2135  
 Welsh, D. 2136, 2137, 2138, 2139  
 Welsted, J. 2140  
 Wen, F. 1076  
 Wenzhi, L. 2216  
 Werdon, S.J. 2141  
 Wershaw, R.L. 10  
 Wesley, D.E. 586  
 Wessel, S.E. 2142  
 Wheat, C.I. 2143  
 Whitaker, S.T. 2144  
 White, C.A. 2145  
 White, E.M. 2146  
 White, G.F. 7, 98  
 White, M.K. 1651, 1652, 1653, 1654, 1655  
 White, P.G. 1205  
 White, R.G. 181, 182, 717  
 White, W. 2147  
 Whitfield, J.W. 2148  
 Whitley, J.R. 2149, 2150, 2151  
 Whitmore, S.B. 2152  
 Whitten, C.B. 1370  
 Wickstrom, G. 874, 875, 1491, 1745, 1747, 1748, 1749, 2153  
 Wiedenheft, W.D. 2154  
 Wiesnet, D.R. 1450, 1603  
 Wiitala, S.W. 2155  
 Wikle, T.A. 2156  
 Wildlife. 1922  
 Wilke, K.R. 2157  
 Wilkey, C.A. 898  
 Wilkinson, C.F. 2158  
 Wilkinson, J.M. 2159  
 Wilkison, D.H. 703, 2222  
 Willard, D.E. 1006  
 Willey, R.G. 5  
 Williams, A.N. 2160  
 Williams, J.H. 2148  
 Williams, J.O. 68  
 Williams, L.G. 2161, 2162

- Williams, R.H. 2163  
Williams, T.T. 2164  
Williams, W.D. 2165  
Willis, D. 632, 639  
Willis, D.W. 2166, 2167, 2168, 2169,  
2189, 2190, 2191  
Willock, T.A. 2170  
Wilson, B. 2171, 2172  
Wilson, G.L. 15  
Wilson, J.F. 2173  
Wilson, K.L. 1369  
Wilson, M.M. 2174  
Wilson, R.E. 2175  
Wilson, S.A. 598  
Wilson, W.D. 2176  
Wiltshire, R.L. 276  
Wing, M.E. 2177  
Winner, W. 994  
Winter, R. 785, 786  
Wipperman, A.H. 2178  
Wirth, B. 2179  
Wiseman, A.G. 1344  
Wiseman, E.D. 2180  
Witinok, P.M. 638  
Witkind, I.J. 2181  
Witt, A. 271  
Witt, A. Jr. 1198, 1199  
Witt, D.W. 2182, 2183  
Witt, L. 1172  
Witt, L.A. Jr. 1200, 1201, 1202  
Witter, D.J. 48  
Witzke, B.J. 2184, 2185, 2186  
Wixson, B.G. 869, 1216  
Wlosinski, J.H. 1265, 2187  
Woessner, W.W. 496  
Wolf, A.E. 2188, 2189, 2190, 2191  
Wolf, J. 1088, 2192  
Wolfe, C.W. 783, 784  
Wolman, M.G. 2214  
Wolson, W.D. 2193  
Wolters, J.D. 2194  
Woo, K. 2195  
Wood, I.R. 390  
Wood, R.D. 1464  
Wood, S.G. 69, 677  
Wood, W.R. 2196, 2197, 2198,  
2199, 2200, 2201  
Woolworth, A.R. 2202  
Worster, D. 2203  
Worthington, E.B. 7, 98  
Wright, D. 218  
Wright, J.C. 2204, 2205, 2206  
Wright, S.J. 218  
Wright Water Engineers, Inc. 2207  
Wuebben, J.L. 2208, 2209  
Wylie, G.D. 2210  
Yabroff, I.W. 1007  
Yalin, M.S. 814  
Yang, J.C. 827, 2211  
Yin, Yao. 2212  
Yotsukura, N. 2213  
Yu, B. 2214  
Yu, Y.S. 2215, 2216  
Zackheim, H.S. 2217  
Zadina, L. 785, 786  
Zaugg, S.D. 341  
Zeihen, L.G. 2218  
Zeitner, J.C. 2219  
Zelazny, J. 75  
Zhang, Z. 826  
Zhao, N. 2220  
Ziegler, A.C. 2221, 2222  
Zigler, S.J. 819  
Zimmer, D.W. 1258, 1259, 1260  
Zimmerman, J.L. 1216  
Zischke, J.A. 2223  
Zittel, A.E. 1601  
Zittel, A.W. 2224  
Znotinas, N.M. 2225  
Zuboy, J.R. 292, 764, 779, 886, 991,  
1105, 1562  
Zuerlein, G. 746, 770, 787, 788,  
2226, 2227, 2228, 2229, 2230, 2231  
Zutoy, T.R. 659  
Zweiacker, P.L. 2232

# Key Words Index

- Accounting Procedures 531  
Accretion 82, 241, 2005  
Acetylcholinesterase 337  
Acid Mine Drainage 849  
Acipenseridae 136  
Actimycetes 464  
Activated Carbon 464, 1929  
Adjacent Land Owners 82  
Administration 1910, 2159  
Administrative Agencies 164, 398  
Adoption of Practices 1711  
Adsorption 677, 1204  
Aerated Lagoons 2038  
Aerial Photography 435, 815, 840, 1071, 1312, 1448, 1450  
Aeridine 69  
Aerobic Conditions 2038  
Aesthetics 947, 1840  
Aftonian 79  
Age 1579, 1805, 2030, 2118  
Age and Growth 1, 41, 64, 96, 108, 152, 285, 293, 433, 448, 556, 572, 795, 831, 923, 940, 984, 1117, 1123, 1245, 1252, 1347, 1447, 1507, 1550, 1644, 1718, 2048, 2051, 2070, 2071, 2073, 2074, 2080, 2085  
Age Composition 1069  
Aggradation 162, 667, 832, 863, 1097, 1135, 1220, 2186  
Aggrading Rivers 1097  
Aggregates 259  
Agricultural Land 815  
Agricultural Practices 958  
Agricultural Runoff 596, 597, 703, 1614, 1711, 1773  
Agricultural Watershed 315, 393, 1204, 1891, 2205  
Agriculture 68, 163, 246, 379, 383, 484, 585, 634, 985, 1004, 1619, 1755, 1895, 1915, 2041, 2077  
Agrochemicals 281, 337, 596, 597, 609, 703, 857, 1013, 1204, 1582  
Air Pollution 629, 947, 1007, 1381, 1912, 2164  
Air Pollution Control Act 629  
Air Quality Standards 1917  
Air Temperature 1722  
Aircraft 355  
Akron Iowa 2184  
Alabama River 253  
Albian 2186  
Aldrin 857, 1013, 1204, 1582  
Algae 12, 229, 1796  
Alkali Metals 238  
Alkalic Composition 697  
Alkalinity 393  
Allagash Wilderness Waterway 2156  
Allozyme 1621  
Alluvial 2220  
Alluvial Aquifer 1765  
Alluvial Aquifers 214, 215, 381, 458, 459, 521, 613, 614, 703, 937, 938, 939, 985, 1732  
Alluvial Channel Bends 1319  
Alluvial Channels 27, 614, 666, 825, 1021, 1319, 1626, 1627, 2215  
Alluvial Deposits 158, 259, 459  
Alluvial Plains 373  
Alluvial Rivers 259, 1164, 2214  
Alluvial Streams 1639  
Alluvium 81, 162, 281, 306, 391, 411, 458, 459, 460, 461, 522, 523, 593, 594, 613, 916, 964, 1620, 1673, 1678, 2185, 2221  
Alosa Chrysochloris 360  
Alpha Chlordane 1204  
Alpha Radioactivity 1960  
Alteration of Flow 207, 1915  
Alterations 1797  
Alternative Planning 164  
Alum Sludge 146  
American Grayling 1245  
American Indians 1628  
Ames Test 849  
Ammonia 1711  
Ammonoids 986, 2066, 2186  
Amphibians 1152  
Anaconda Montana 2126  
Anaerobic Conditions 2038  
Analog Computers 2100  
Analysis 1076  
Analytical Techniques 999, 1773, 2100  
Ancrycephalinae 1001  
Anemometers 388  
Anglers 1487  
Animal Pathology 337  
Animal Population 1438  
Animals 1022  
Annual Catch 624  
Annual Floods 1334  
Annual Peak Discharge 1332, 1333  
Annual Reports 1651  
Antibodies 1346  
Aplodinotus Grunniens 235, 769, 1314, 1768, 1770, 1771  
Applications 276, 990, 1205, 1370, 1625, 1630  
Appraisals 2106  
Approximation Method 1722  
Aquaculture 339  
Aquaculture Development 136  
Aquatic Animals 229, 1279  
Aquatic Bacteria 1439  
Aquatic Birds 530, 1279, 1660  
Aquatic Drift 1154, 1314, 1594  
Aquatic Environment 10, 1594  
Aquatic Habitat 229  
Aquatic Habitats 314, 1029, 1273, 1573, 1600, 1639, 1912  
Aquatic Insects 316, 721, 1154, 1155, 1282  
Aquatic Life 43, 571, 1932  
Aquatic Mammals 1279  
Aquatic Microbiology 1929  
Aquatic Microorganisms 2210  
Aquatic Plants 887, 1737  
Aquatic Reptiles 1387  
Aqueous Solutions 10  
Aquifer 841  
Aquifer Systems 701  
Aquifers 215, 218, 381, 391, 459, 460, 461, 521, 522, 523, 614, 701, 818, 851, 964, 985, 1278, 1555, 1632, 1665, 1732, 1766, 2100, 2157  
Archaeological Sites 9  
Archaeology 392, 1788  
Areal Geology 120, 220, 391, 465, 687, 689, 1034, 1212, 1750  
Areal Studies 1339  
Argentine Limestone 2148  
Arid Lands 167  
Arizona 919  
Arkansas River 253, 279, 1659, 1780  
Armoring 159, 919  
Arsenic 238, 598, 857, 959, 960, 1576, 2221  
Arsenic Compounds 835  
Artesian Wells 1619  
Arthropods 143, 302  
Artificial Recharge 1632  
Artificial Substrates 721  
Artificial Wetlands 1022  
Ash 885  
Assay 1773, 2210  
Assessment 1753  
Atlas 2200  
Atmospheric Gases 280  
Atmospheric Precipitation 281, 1101  
Atomic Absorption Spectrophotometry 710  
Atrazine 281, 596  
Atresia 900  
Audubon 1729  
Aufwuchs 260, 263, 294, 295, 599,



- 1282, 1594  
**Aurora County** 165  
**Availability** 988  
**Available Water** 949  
**Average Flow** 897, 987, 1388  
**Aves** 1279  
**Avulsion** 82, 241, 2005  
**Backwater** 202, 378, 1901  
**Baculites** 986  
**Bad River** 307  
**Badlands of Missouri River Region** 1666  
**Bald Eagles** 663, 1721, 2031, 2032  
**Band Recoveries** 530  
**Banding** 530  
**Bank Erosion** 82, 496, 635, 1021, 1135, 1450, 1465, 1469, 1840  
**Bank Protection** 496, 1320, 1840, 1869  
**Bank Stabilization** 229, 993, 1021, 1869, 1870  
**Bank Storage** 613, 635  
**Bankfull Stage** 437  
**Banks** 816  
**Barges** 26  
**Barriers** 1050  
**Baseline Studies** 224, 1929  
**Basin and Range Province** 919  
**Basins** 665, 896  
**Bass** 624, 719, 1204  
**Basses** 719  
**Bats** 1681  
**Bays** 1256  
**Beaches** 1912  
**Bearpaw Mountains** 585  
**Beaver** 2043, 2045  
**Beaverhead County** 612, 1150, 1246  
**Bed Armoring** 916  
**Bed Erosion** 917, 918  
**Bed Forms** 74, 824, 916, 917, 1627, 1636  
**Bed Stabilization** 1021  
**Bed Topography** 1319  
**Bedding Plane Irregularities** 2101  
**Bedload** 27, 441, 666, 758, 826, 916, 1046, 1613, 1637, 1674, 1752, 1833  
**Bedrock** 1278  
**Beds** 74, 254, 2122  
**Beds under Water** 2122  
**Behavior** 284  
**Belt Supergroup** 2218  
**Benches** 276  
**Beneficial Use** 398  
**Benefits** 1628, 1891, 2106, 2225  
**Benthic** 153, 647  
**Benthic Algae** 257  
**Benthic Fauna** 295, 345, 473, 1154, 1282  
**Benthos** 229, 263, 845, 984, 1088, 1155, 1199, 1515, 1594, 2062, 2102, 2192  
**Beta Radioactivity** 1960  
**Bethany Falls Limestone** 2148  
**Bhc** 857, 1013  
**Bibliography** 167, 184, 280, 314, 396, 425, 611, 717, 881, 899, 913, 1408, 1619, 1691, 1750, 2090, 2091  
**Big Bend Dam** 544, 545, 1098, 1448, 1883  
**Big Horn River Mont** 1960  
**Big Red River Basin** 1609  
**Big River** 1398  
**Big Sioux River** 1278, 1603, 1960  
**Big Sioux River Basin** 2009  
**Big Sioux River Valley** 2186  
**Bigmouth Buffalo** 448, 1080, 1157, 1204, 1574, 2089  
**Bioaccumulation** 1404, 1559, 1561  
**Bioassays** 337  
**Biochemical Oxygen Demand** 1711, 1796, 1929, 2124  
**Biodegradation** 2210  
**Biodiversity** 1152  
**Biogenic Structures** 302, 1469  
**Biogeography** 502, 543, 2066  
**Biography** 1430  
**Bioindicators** 1773, 2124, 2125  
**Biological Change** 659  
**Biological Data** 913  
**Biological Magnification** 1204  
**Biological Oxygen Demand** 1022  
**Biological Properties** 907  
**Biological Samples** 710, 1204  
**Biological Studies** 449, 906  
**Biological Waste Water Treatment** 1022  
**Biology** 136, 252  
**Biomass** 295, 932, 1155, 1314  
**Biomass Production** 1105  
**Biostratigraphy** 2144, 2185, 2186  
**Biota** 1169, 1240, 1241, 1562, 1577, 1594, 1677, 1933  
**Biquinoline** 69  
**Bird Eggs** 1559  
**Birds** 439, 663, 796, 977, 1022, 1038, 1559, 1681, 1682, 1721, 1814, 1920, 2031, 2032  
**Bismarck North Dakota** 1431, 1840  
**Bissin South Dakota** 676  
**Bituminous Coal** 383  
**Bivalvia** 986  
**Black Bullhead** 1204, 1477, 1564  
**Black Crappie** 87, 1204, 1477, 1664, 2048  
**Black Hills Region** 307, 686  
**Blindness** 1553  
**Block Structures** 1656  
**Blue Catfish** 740  
**Blue River Basin** 417  
**Blue River Missouri** 337  
**Blue Sky Sapphire** 2219  
**Blue Sucker** 80, 448, 1001, 1574  
**Blue Suckers** 1492, 1493  
**Bluffs** 676, 2195  
**Body Length** 739  
**Body Size** 1069  
**Boltonia decurrens** 1737  
**Bonner Springs Formation** 391  
**Books** 748, 1274  
**Boone County** 62, 179, 313, 557, 622, 633, 652, 820, 853, 1229, 1367, 1567, 1568, 1610, 2053  
**Boone County Missouri** 190, 522, 523  
**Boonville Missouri** 1076  
**Bottom Currents** 158  
**Bottom Erosion** 864  
**Bottom Fauna** 1602  
**Bottom Features** 151  
**Bottom Sampling** 1164  
**Bottomland Vegetation** 45  
**Boulder Batholith** 120  
**Boulder Rivermont** 429  
**Boulders** 407  
**Boundaries** 82, 241, 2005  
**Boundary Conditions** 1796  
**Boundary Disputes** 241  
**Bow River** 1341  
**Boyd County** 787  
**Brachiopoda** 986  
**Brachiura** 143  
**Braiding** 1482  
**Brain Ache** 337  
**Brassy Minnow** 53  
**Brazos River** 1674  
**Breeding** 742, 2031  
**Breeding Sites** 316  
**Bridges** 850, 1076  
**Brood Stock** 2061  
**Brown Trout** 1462  
**Brule County South Dakota** 1076  
**Bryophytes** 203  
**Bryopsida** 203  
**Buffalo Fishes** 769, 1062, 1204, 1255, 2166, 2169  
**Bullhead Minnow** 359  
**Burbot** 737, 764, 991  
**Bureau of Reclamation** 1798  
**Buried Missouri River Valley** 1100  
**Buried Valleys** 416  
**Burleigh County** 653  
**Burleigh County North Dakota** 1431  
**Burrows** 302  
**Buttes** 585  
**C 14** 524  
**Caddisflies** 73, 229, 721, 1154, 1282, 1594  
**Cake Solids** 237  
**Calcium** 393, 558  
**Calibration** 366, 851, 1164  
**California** 919  
**Callaway County** 245, 1367, 2149

- Cambrian** 686  
**Campbell County** 536  
**Canada** 207, 1100, 1169, 1988, 2170, 2225  
**Canals** 218, 276, 1915  
**Canopy** 883  
**Canyon Ferry** 64, 225, 1437, 1912, 2126, 2204, 2205  
**Cape Guardeau** 81  
**Capital Costs** 531, 2106  
**Capitalized Damages** 1755  
**Capture** 1541  
**Capture Recapture Studies** 1387  
**Carbamate Pesticides** 337  
**Carbon** 239, 393, 524  
**Carbonate Rocks** 1657, 2148, 2157, 2195  
**Carboniferous** 220, 391, 685, 686, 2148, 2157  
**Carp** 337, 448, 624, 769, 1050, 1204, 1644, 1648, 2089  
**Carpiodes carpio** 448, 769, 1574, 1818, 2089  
**Carpiodes Sp.** 1204  
**Carpsucker** 1204  
**Carroll** 1034  
**Carrollton Louisiana** 1674  
**Cartography** 307  
**Cascade County** 445, 2046  
**Cascade County Montana** 2157  
**Case Studies** 1370  
**Cass County Nebraska** 1221  
**Castles Mine** 1634  
**Catalogs** 1002  
**Catastrophic Floods** 305  
**Catch per Unit** 798  
**Catchability** 1387  
**Catchment Areas** 1363, 1476  
**Catfish** 1204, 1447, 1540  
**Cationic Flocculants** 237  
**Cations** 393  
**Catostomidae** 923  
**Catostomus commersoni** 1255, 1564  
**Cattle** 1438, 1930  
**Ccc Mine** 1634  
**Cedar River** 1204  
**Cenomanian** 2186  
**Cenozoic** 9, 78, 79, 81, 302, 306, 320, 351, 373, 374, 391, 407, 416, 442, 505, 524, 543, 674, 685, 686, 691, 1372, 1802, 1803, 1804, 2119, 2144, 2163, 2184, 2185  
**Census** 834  
**Central Missouri** 1732  
**Central Montana** 1634  
**Central Nebraska** 276  
**Central North Dakota** 478  
**Centrarchidae** 1204, 1574  
**Centrifuges** 1458  
**Cephalopods** 986, 2066, 2186  
**Ceratomorpha** 2184  
**Cesium** 238  
**Cestodes** 2193  
**Chalk** 1657  
**Chamberlain Area** 2119, 2177  
**Chamberlain Section** 2177  
**Chamberlain South Dakota** 1076  
**Changes** 1370, 1804  
**Channel Armoring** 1023  
**Channel Catfish** 289, 377, 378, 446, 624, 668, 707, 739, 769, 772, 1204, 1273, 1527, 1540, 1541, 1566, 1718, 1972, 2071, 2075, 2226  
**Channel Degradation** 1005  
**Channel Erosion** 496, 825, 1319, 1563  
**Channel Flow** 1479  
**Channel Geometry** 638, 702, 1125, 1343, 1578  
**Channel Improvement** 624, 1005, 1482, 1563, 1728, 1894, 1895  
**Channel Morphology** 27, 254, 256, 408, 497, 666, 747, 895, 1154, 1282, 1364, 1479, 2214, 2215  
**Channel Patterns** 408  
**Channel Stabilization** 43  
**Channeling** 624, 735, 747, 760, 765, 1273, 1639  
**Channelization** 93, 145, 590, 624, 659, 744, 747, 765, 782, 831, 984, 1005, 1088, 1168, 1199, 1273, 1482, 1514, 1515, 1563, 1566, 1601, 1605, 1639, 1669, 1682, 1728, 1894, 1895, 2044  
**Channels** 73, 246, 254, 263, 279, 390, 392, 441, 482, 553, 624, 635, 637, 743, 782, 814, 823, 832, 850, 954, 969, 983, 1021, 1076, 1125, 1220, 1312, 1344, 1370, 1453, 1573, 1626, 1627, 1638, 1639, 1732, 1751, 1805, 1822, 1833, 1969, 2005, 2069, 2092, 2122, 2186, 2214  
**Channels Cross Sections** 2122  
**Characterization** 237  
**Charadrius** 1280  
**Charadrius melodus** 1660  
**Chariton County** 853, 2054, 2055  
**Chariton River Basin** 479, 2055  
**Check Lists** 720, 746, 1401  
**Chemical Analysis** 337, 1653, 1677, 2195  
**Chemical Composition** 10, 81, 238, 1101  
**Chemical Control** 1050  
**Chemical Oxygen Demand** 1711  
**Chemical Pollutants** 1712, 2210  
**Chemical Pollution** 2210  
**Chemical Properties** 393, 765, 835, 1458, 1998  
**Chemical Reactions** 1456  
**Chemical Recovery** 1013  
**Chemical Sludges** 237  
**Chemical Stratification** 103  
**Chemicals** 1138, 1614  
**Cheyenne River** 238, 307  
**Cheyenne River Basin** 217  
**Chinook Salmon** 1, 996, 998  
**Chinook Smolts** 1  
**Chironomid Larvae** 345  
**Chironomidae** 846  
**Chironomus plumosus** 845  
**Chlordane** 609, 857, 1013  
**Chlorides** 393, 558, 2124  
**Chlorinated Hydrocarbons** 1204, 1456  
**Chlorination** 146, 675, 1169, 1455  
**Chlorine** 464, 1456  
**Chloroform** 1455  
**Chloroform Soluble Carbon Filter Extract** 675  
**Chlorophyll** 765, 2205  
**Cholestanols** 1773  
**Chordata** 336, 1002, 2184  
**Choronomidae** 1088  
**Chouteau County Montana** 585  
**Chubs** 741, 764, 991  
**Cities** 169  
**Cladocera** 343, 344  
**Clarence Cannon Reservoir Mo** 1313  
**Clark** 1170  
**Clark Fork Basin** 1366  
**Clark Fork River Basin** 1385  
**Clastic Rocks** 585, 832, 1657, 2144, 2157, 2185  
**Clastic Sediments** 81, 94, 162, 172, 276, 281, 306, 374, 391, 407, 411, 522, 523, 524, 585, 593, 594, 694, 1278, 1372, 1678, 1685, 1800, 1802, 2163, 2184, 2185, 2221  
**Clay** 1685  
**Clay County Missouri** 2221  
**Clay Mineralogy** 1339  
**Clays** 614  
**Climate** 585, 958, 962, 981, 1677, 2078  
**Climate Change** 280, 380, 429, 533, 534, 1476  
**Climates** 981, 1381, 1476  
**Climatic Data** 224, 580  
**Climatic Effects** 1476  
**Climatology** 533, 981, 1620  
**Clinton County** 177  
**Cloud Seeding** 429  
**Coagulation** 146, 237  
**Coal** 24, 167, 352, 391, 465, 842, 849, 1270, 1381, 1917, 2164  
**Coal Gasification** 1673  
**Coal Mines** 383, 949, 1305  
**Coal Mines and Mining Environmental Aspects** 1897  
**Coelenterata** 822  
**Cofferdams** 1452

- Coleoptera** 302  
**Coliforms** 1439, 1773, 1929, 1998, 2038, 2097  
**Collecting** 1634, 2065, 2174  
**Colloids Mississippi River** 1451  
**Colonies** 258, 530  
**Colorado** 3, 11, 442, 947, 1212, 1555, 1987  
**Colorado Group** 2157  
**Colorado River** 710, 857, 919, 1077, 1325, 1390, 1476, 1960, 2156  
**Colorado River Basin** 3, 167, 383, 924, 949, 1007  
**Columbia Missouri** 190  
**Columbia Plateau** 1212  
**Columbia River** 303, 304, 629, 1212  
**Columbia River Basin** 68, 1332, 1333, 1334, 1335  
**Columbia River Basin Montana Floods** 157  
**Combined Sewers** 1934  
**Commercial Fisheries** 34, 1425  
**Commercial Fishery** 485, 740, 786, 795, 798, 873, 1257, 1447, 1496, 1515, 1516, 1525, 1536, 1539, 1585, 1645, 2071, 2229  
**Commercial Fishing** 555, 608, 1514  
**Community Composition** 202, 1574  
**Community Development** 1629, 1913  
**Compaction** 1474  
**Compacts** 629  
**Comparative Productivity** 2106  
**Comparative Studies** 933  
**Comparison Studies** 760, 1164  
**Comparison Techniques** 2225  
**Competing Use** 135, 431, 1683, 2077  
**Competition** 1396, 1737, 2073  
**Composition** 81, 1101, 2163  
**Comprehensive Planning** 398, 1959  
**Computer Models** 825, 851, 1083, 1305, 1753  
**Computer Programs** 281, 497, 823, 825, 827, 917, 918, 967, 999, 1390, 1753, 2041  
**Concentration** 10, 596  
**Concrete** 980, 1099  
**Conductivity** 393  
**Conferences** 136  
**Confinement Pens** 1438, 1930  
**Conservation** 3, 20, 21, 83, 135, 477, 659, 665, 823, 861, 1034, 1118, 1578, 1719, 1774, 1869, 1924  
**Constraints** 525  
**Construction** 218, 980, 1220, 2122  
**Construction Materials** 4, 391, 1212  
**Consumptive Use** 404, 431, 1961  
**Contaminants** 231, 1395, 1562  
**Contamination** 289  
**Continental Margin Sedimentation** 2186  
**Control Structures** 1021, 1894  
**Controls** 1604, 1625, 1878, 1879, 2164  
**Convection** 581, 1358  
**Conyza Canadensis** 1737  
**Cooling** 580, 1389, 1390, 1932  
**Cooling Capacity** 1389  
**Cooling Towers** 1932  
**Cooling Water** 261, 583, 1358  
**Cooper County Missouri** 1076  
**Cooper Nuclear Station** 1222  
**Coordination** 2159  
**Copepods** 103, 343, 344  
**Copper** 393  
**Coprostanols** 1773  
**Corduliidae** 1816  
**Cores** 1781, 2186  
**Correlation** 184, 832, 1657  
**Correlation Analysis** 999, 1083  
**Corson County** 536  
**Corydalis Cornutus** 1813  
**Cost** 218  
**Cost Allocation** 1725  
**Cost Analysis** 26, 379, 531, 735, 1725  
**Cost and Benefits** 590  
**Cost Benefit Analysis** 398, 571, 834, 1711, 1725, 1726, 1910  
**Cost Effectiveness** 1025  
**Cost Sharing** 531  
**Costs** 26, 1024, 1254, 1381, 1628, 1725  
**Cottonwood Creek** 2126  
**Cottonwood Trees** 885, 1473, 1618  
**Cottus Cognat** 2134  
**Council Bluffs** 2172  
**Coustaceans** 907  
**Creel** 255  
**Creel Census** 50, 923, 1276, 1402, 1427, 1504, 1588, 1708, 2129  
**Creel Survey** 49, 1965  
**Creep** 563  
**Crest Stage Gages** 1332, 1333, 1334, 1335  
**Cretaceous** 143, 203, 320, 336, 563, 674, 676, 685, 686, 690, 691, 832, 961, 967, 986, 1093, 1656, 1657, 1665, 1878, 1879, 2066, 2157, 2177, 2186  
**Cretaceous Pleistocene Aquifers** 1772  
**Critical Review** 10, 818  
**Crop Production** 1071, 1686  
**Crop Yield** 163  
**Cropland** 437  
**Crops** 379  
**Cross Sections** 758, 862  
**Crow Creek Indian Reservation** 841  
**Crow Indian Reservation** 2106  
**Crustacea** 143  
**Cs 137** 238  
**Ctenopharyngodon idella** 201, 1397  
**Culicidae** 1360  
**Cultivation** 408  
**Cultural Costs** 1628  
**Cultural Resources** 1905, 1906  
**Cultured Organisms** 1346  
**Current Meters** 1164  
**Current Research** 1678  
**Current River** 2156  
**Cutthroat Trout** 658, 1030, 1549  
**Cyanophyta** 2205  
**Cycleptus Elongatus** 448, 1001, 1574  
**Cycles** 1576  
**Cyclops Bicuspidatus Thomasi** 1064  
**Cyclothems** 2186  
**Cyprinidae** 87, 359, 741, 764, 991, 1574  
**Cyprinus carpio** 337, 448, 624, 769, 1050, 1204, 1644, 1648, 2089  
**Cyptobranchus alleganiensis** 1387  
**Dakota Formation** 2186  
**Dam Construction** 2057  
**Dam Effects** 721, 765, 907, 1314, 1473, 1561  
**Dam Foundations** 1497  
**Damage** 163  
**Dams** 3, 26, 42, 45, 74, 77, 158, 185, 204, 224, 225, 388, 488, 525, 528, 590, 624, 667, 738, 760, 818, 889, 947, 1097, 1098, 1099, 1221, 1254, 1266, 1279, 1314, 1376, 1406, 1448, 1449, 1452, 1482, 1691, 1795, 1798, 1840, 1874, 1882, 1883, 1895, 1980, 2102, 2122  
**Dams Environmental Aspects** 1981  
**Daniels County Montana** 2144  
**Daphnia** 2204, 2205  
**Daphnia Galeata Mendotae** 1064  
**Daphnia Pulex** 1064  
**Darcy 'S Law** 141  
**Data** 354, 702, 1276  
**Data Acquisition** 215, 955, 1795  
**Data Bases** 990  
**Data Collections** 2, 224, 429, 540, 760, 987, 1008, 1070, 1083, 1364, 1366, 1653, 1655, 1998, 2041, 2077, 2122  
**Data Interpretation** 1046  
**Data Processing** 215, 388, 523, 823, 851, 915, 967, 990, 999, 1083, 1603  
**Data Reduction** 388  
**Data Reports** 1651, 1652  
**Data Storage and Retrieval** 2077  
**Dates** 524  
**Ddd** 1013  
**Dde** 857, 1013, 1582  
**Ddt** 289, 857, 1013, 1204, 1561, 1582

- Debris Flows 676  
 Decision Making 314, 496, 525, 540, 1029, 1726, 2041, 2225  
 Decision Theory 516  
 Deep Wells 8  
 Deer 16  
 Deer Lodge 2126  
 Deforestation 958  
 Degradation 160, 259, 667, 824, 825, 863, 1023, 1097, 1135, 2069  
 Dehydration 1458  
 Delaware River 253, 629  
 Deltaic Environment 2186  
 Deltas 1071  
 Density Currents 103  
 Deposition 160, 278, 832, 859, 885, 1657, 1674, 2163  
 Depositional Environment 2186  
 Deposition sediments 1096, 1482, 1822  
 Depressions 1677  
 Depth 345, 721, 845, 999, 1256  
 Des Moines Lobe 131  
 Desalination 68  
 Description 1048  
 Design 276, 1452, 1453, 1544, 1581, 1638, 1674, 1892, 1893  
 Design Floods 635, 1497  
 Detection 2221  
 Development 101, 229, 501, 679, 886, 2164  
 Development Projects 958  
 Devils Lake 571  
 Devonian 184  
 Dewey County 536  
 Di 2 Ethylhexyl Phthalic Acid 2210  
 Diagenesis 1576, 1657  
 Diaptomus 1064  
 Diatoms 103, 258, 646, 1244, 2124, 2125  
 Diatremes 695, 696, 697  
 Dibenzocarbazole 69  
 Dieldrin 609, 857, 1013, 1204, 1582  
 Diet 1039, 1552  
 Diettertia montanensis 203  
 Diffusion 497, 581, 1005, 1358, 1712  
 Diffusion Coefficients 1712  
 Digital Simulation 523  
 Dike Fields 1638  
 Dike Pools 73  
 Dikes 43, 73, 229, 585, 870, 1273, 1312, 1482, 1515, 1516, 1573, 1638, 1728, 1840, 1912, 2126  
 Dimorphism 2066  
 Diptera 229, 846, 1105, 1154, 1155, 1282  
 Disasters 39  
 Discharge 45, 162, 190, 225, 238, 318, 341, 638, 915, 990, 1196, 1221, 1343, 1370, 1448, 1674, 1751, 1752, 1833, 2069, 2187, 2214  
 Discharge Measurement 74, 408, 958, 987, 1164  
 Discharge Water 74, 253, 666, 999, 1096, 1482, 2122  
 Discoscaphites 2066  
 Disease 361  
 Disease Resistance 1346  
 Diseases 1761  
 Disinfection 146  
 Dispersion 390, 497, 719, 862, 1614, 1621, 2173, 2213, 2215  
 Displacements 1656  
 Dissolved Materials 1576, 2157  
 Dissolved Oxygen 345, 1796, 1933, 2124  
 Dissolved Solids 393, 558, 1677  
 Distribution 1, 40, 53, 54, 56, 86, 88, 96, 108, 194, 196, 252, 271, 283, 410, 433, 439, 499, 502, 535, 572, 600, 601, 658, 697, 719, 873, 879, 1048, 1173, 1213, 1245, 1347, 1351, 1355, 1392, 1396, 1436, 1472, 1501, 1549, 1550, 1564, 1597, 1613, 1623, 1767, 1967, 2008, 2070  
 Distribution Analysis 1637  
 Distribution Patterns 2155  
 Distribution Records 242, 822, 1816  
 Disturbance 548, 1694  
 Diurnal Variation 721  
 Diversion 45, 236, 571, 854, 1915  
 Diversion Structures 164, 525  
 Diversity 2191  
 Dj Report 387, 529, 557, 564  
 Dj Report Nd F 002 R 24 1  
 Dj Report Sd F 015 R 2194  
 Documentation 1619  
 Domestic Wastes 458, 1773, 1933  
 Domestic Water 2077  
 Dorosoma cepedianum 87, 271, 626, 906, 1050, 1113, 1574, 1765, 2061  
 Douglas County Nebraska 1221  
 Drainage 246, 638, 1071, 1891, 1895, 2185  
 Drainage Area 437, 897, 1655  
 Drainage Basins 218, 596, 702, 985, 1343, 1344, 1370, 1449, 1576, 2059  
 Drainage Changes 76, 351, 505, 616, 839, 1100, 1805, 1806, 2181  
 Drainage Effects 1913  
 Drainage Engineering 2106  
 Drainage Evolution 839  
 Drainage Patterns 131, 1544, 1603  
 Drainage Systems 1412  
 Drainfallage Basins 227  
 Drains 1913  
 Drawdown 708, 1021, 1648, 2086  
 Dredges 845  
 Dredging 228, 827, 1885, 2219  
 Drift 306, 585  
 Drinking Water 596, 1455, 1582  
 Drought 533, 1256, 1982, 2078  
 Dry Farming 2106  
 Dry Pointnd 1840  
 Dunes 27, 1627  
 Duolite a 7 10  
 Duration Curves 987  
 Dust 524  
 Dust Storms 1912  
 Dye Dilution Techniques 2173  
 Dye Releases 497, 2173, 2215  
 Dye Trace 2216  
 Dynamics 1677  
 Eagles 1681, 1920  
 Earth Handling Equipment 1381  
 Earthquakes 985  
 Easements 1869  
 East Central South Dakota 94  
 East Fork Chariton River 1138  
 Echo Surveys 2029  
 Ecological Associations 1574  
 Ecological Distribution 887  
 Ecological Effects 760, 819, 854, 1273, 1279, 1473, 1573, 1737  
 Ecology 45, 56, 83, 101, 207, 398, 553, 580, 597, 665, 818, 823, 887, 947, 1024, 1116, 1152, 1216, 1237, 1355, 1394, 1423, 1464, 1594, 1811, 2070, 2091  
 Economic Analysis 163, 1500  
 Economic and Social Factors 1024  
 Economic Aspects 163, 236, 533, 571, 1583  
 Economic Development 924, 929, 1896  
 Economic Efficiency 431, 2106  
 Economic Geology 24, 25, 218, 352, 391, 434, 442, 465, 842, 851, 861, 1032, 1212, 1270, 1555, 1634, 1657, 1782, 1988, 2065, 2126, 2174, 2177, 2218, 2219  
 Economic Impact 185, 924, 1499, 1628, 2057, 2106  
 Economic Justification 582, 1798  
 Economic Prediction 315, 582, 2106  
 Economics 26, 102, 169, 228, 430, 484, 582, 735, 841, 924, 947, 1004, 1007, 1025, 1128, 1342, 1545, 1755  
 Ecosystem Disturbance 948, 1279  
 Ecosystem Management 83, 367, 777, 881, 909, 1604, 1605, 1787  
 Ecosystem Resilience 495  
 Ecosystem Restoration 744  
 Ecosystems 187, 747, 774, 775, 779, 907, 947, 1022, 1314, 1604, 1625  
 Effective Capacity 580  
 Effects 172, 553, 1101, 2164  
 Effects of Dams on 1267  
 Effluent 205, 393, 398, 651, 1753, 1773, 1934  
 Effluent Standards 583

- Effluent Streams** 2205  
**Ekman Dredge** 845  
**El Dorado Mine** 1634  
**Electric Fishing** 1574  
**Electric Power Demand** 1389  
**Electric Power Industry** 261, 950  
**Electric Power Plants** 135, 580, 583, 1932  
**Electric Power Production** 1389  
**Electrical Conductivity** 956  
**Electrofishing** 1207, 1574  
**Electrophoresis** 871  
**Elephantidae** 2184  
**Elephantoidea** 2184  
**Elkhorn River** 1543  
**Elm Trees** 1473  
**Embankments** 634, 967, 1574, 1874  
**Emerald Shiner** 551  
**Emigration** 1387  
**Eminent Domain** 976  
**Empirical Equation** 2215  
**Employment** 2057  
**Endangered Fish** 1085  
**Endangered River** 477  
**Endangered Rivers** 20, 21  
**Endangered Species** 419, 587, 718, 764, 796, 973, 991, 1044, 1086, 1426, 1454, 1548, 1561, 1660, 1681, 1682, 1737, 1774, 1843, 1920, 1976, 1977, 1978, 1979, 2152, 2230  
**Endemic Species** 1737  
**Endopterygota** 302  
**Endrin** 857, 1013, 1582  
**Energy** 167, 218, 314, 501, 580, 748, 784, 924, 949, 1007, 1029, 1305  
**Energy Conversion** 167  
**Energy Development** 383, 949, 1077  
**Energy Sources** 1270, 1325, 1917, 2177  
**Engineering** 1482, 2211  
**Engineering Designs** 2225  
**Engineering Geology** 4, 159, 162, 172, 218, 225, 276, 391, 414, 528, 553, 563, 593, 814, 823, 915, 961, 967, 990, 1073, 1074, 1216, 1220, 1221, 1312, 1448, 1449, 1452, 1453, 1474, 1638, 1685, 1781, 1833, 1878, 1879, 2092, 2148  
**Engineering Projects** 4  
**Engineering Properties** 1685  
**Engineering Structures** 224  
**Engineering Tributaries** 315  
**Ennis Lake** 1576  
**Enteric Bacteria** 1439, 2097  
**Entrainment** 233, 261, 263, 720, 950, 1256, 1331, 1459, 1475  
**Environmental Engineering** 1024  
**Environment** 83, 164, 398, 832, 947, 1116, 1677, 1753, 1924, 2163  
**Environment Management** 205, 259, 778, 1274  
**Environmental Effects** 7, 43, 164, 167, 207, 224, 228, 229, 236, 261, 314, 367, 571, 584, 747, 854, 883, 950, 1007, 1029, 1062, 1116, 1155, 1330, 1381, 1389, 1473, 1476, 1563, 1573, 1686, 1726, 1895, 1912, 1915, 2041, 2225  
**Environmental Engineering** 862, 947, 1025, 1390  
**Environmental Geology** 3, 227, 390, 501, 553, 818, 823, 1034, 1101, 1138, 1205, 1216, 1572, 1625, 1630, 1924, 2164  
**Environmental Impact** 45, 263, 367, 435, 482, 634, 720, 746, 748, 774, 775, 819, 869, 958, 1116, 1279, 1325, 1459, 1475, 1796, 1807  
**Environmental Impact Statement** 164, 398, 404, 1144, 1686, 1840, 1843, 1869, 1895, 1912, 1913, 1915, 1980  
**Environmental Legislation** 1118, 1660  
**Environmental Management** 1274, 1605  
**Environmental Monitoring** 39, 615, 819, 1795  
**Environmental Policy** 1274  
**Environmental Protection** 274, 747, 1118, 1692  
**Environmental Protection Agency** 1932  
**Environmental Restoration** 205, 1639, 1692  
**Enzyme Polymorphism** 968  
**Ephemeridae** 641  
**Ephemeroptera** 502, 641, 1088, 1105, 1767  
**Equations** 525, 916, 919, 999, 1453, 1751  
**Equidae** 2184  
**Equipment** 1381  
**Equity** 82  
**Equus** 2184  
**Erodibility** 160  
**Erosion** 132, 158, 159, 160, 161, 172, 246, 254, 278, 279, 407, 408, 427, 435, 481, 595, 676, 814, 859, 885, 919, 967, 983, 1028, 1073, 1074, 1076, 1101, 1220, 1320, 1370, 1448, 1449, 1469, 1544, 1563, 1572, 1578, 1614, 1639, 1732, 1840, 1878, 1879, 1892, 1893, 1981, 2103  
**Erosion Control** 229, 496, 1021, 1118, 1204, 1482, 1686, 1840, 1912  
**Erosion Features** 814  
**Erratics** 306, 407  
**Error Analysis** 1164, 1363, 1722  
**Erts** 1625  
**Esox Lucius** 447, 769, 900, 901, 1158, 1204, 1477, 1564, 1621  
**Estimated Benefits** 1798  
**Estimated Costs** 1798  
**Estimating** 1722  
**Etheostoma spectabile** 2180  
**Ethion** 1013  
**Eutheria** 2184  
**Eutrophication** 207, 1235, 2205  
**Evaluation** 164, 851, 896, 949, 955, 1118, 1899, 2156, 2210, 2225  
**Evaporation** 583  
**Evapotranspiration** 1620  
**Evolution** 160  
**Excavation** 1381  
**Exotic Species** 1787  
**Expeditions** 303, 1034, 1170  
**Expeditions and Explorations** 304  
**Experimental Studies** 225, 936, 1751, 1752  
**Exploitation** 1676  
**Exploration** 46, 230, 440, 664  
**Explorations** 303  
**Facilities** 525, 582  
**Factors** 1452  
**Failures** 276  
**Fairfax District** 851  
**Farm Produce** 130  
**Farm Waste** 675  
**Farm Wastes** 675, 1438, 1930  
**Farms** 2225  
**Fathead Minnow** 1564  
**Faulk County** 191  
**Faults** 840, 961, 1656  
**Fauna** 432, 738, 745, 1223, 1681  
**Faunal List** 543, 1064  
**Faunal Provinces** 543  
**Faunal Studies** 693, 1372  
**Feasibility Studies** 379, 834, 1632  
**Fecundity** 932  
**Federal Government** 135, 629, 924, 1798, 1932, 2005  
**Federal Jurisdiction** 629, 1683  
**Federal Policies** 1660  
**Federal Power Commission** 315, 1798  
**Federal Project Policy** 1725, 1910  
**Federal Projects** 1629  
**Federal Reservations** 135, 379  
**Federal State Controversies** 1794  
**Federal States Water Rights Conflicts** 135  
**Federal Water Pollution Control Act** 1116  
**Federal Water Pollution Control Act Amendments of 1972** 1116  
**Federal Water Project Act** 1726  
**Federal Water Project Recreation Act of 1965 Compliance** 1869  
**Feed Lots** 1438  
**Feeding** 1, 41, 64, 108, 212, 433, 472, 535, 706, 742, 831, 984, 1039, 1153, 1207, 1361, 2226

- Feeding Behavior** 1155  
**Feeding Ecology** 339  
**Feeding Habits** 1155  
**Feeding Rates** 1155  
**Feedlot Waste** 675, 1930  
**Fenthion** 1013  
**Fergus County** 243, 1040, 1041, 1042, 1432, 1433, 1434, 1817  
**Fergus County Montana** 2174  
**Ferric Sludge** 146  
**Fertilizers** 1614  
**Field Guide** 78, 120, 196, 220, 291, 306, 357, 410, 434, 662, 669, 793, 830, 1212, 1393, 1396, 1397, 1470, 1472, 1754, 2170  
**Field Guides** 1044  
**Field Studies** 1613  
**Field Trips** 2218  
**Filtration** 10, 146, 237, 1959  
**Filtration Rates** 237  
**Financial Feasibility** 1145  
**Financing** 1930  
**Finite Difference Analysis** 215, 1732  
**Finite Difference Methods** 259, 581  
**Finite Element Analysis** 405  
**Fish** 13, 18, 41, 43, 54, 64, 87, 101, 108, 109, 133, 196, 212, 221, 229, 260, 275, 285, 286, 291, 293, 314, 361, 371, 372, 410, 433, 446, 448, 473, 535, 566, 571, 577, 600, 626, 651, 668, 670, 672, 679, 680, 706, 707, 717, 719, 782, 831, 860, 900, 903, 950, 984, 1029, 1039, 1113, 1124, 1153, 1166, 1170, 1196, 1204, 1207, 1234, 1241, 1245, 1252, 1257, 1259, 1261, 1267, 1268, 1293, 1314, 1331, 1355, 1371, 1392, 1396, 1411, 1470, 1496, 1501, 1507, 1515, 1548, 1550, 1553, 1562, 1566, 1573, 1577, 1580, 1594, 1597, 1600, 1744, 1768, 1809, 1868, 1896, 1967, 2048, 2051, 2079, 2081, 2085, 2086, 2088, 2099, 2116, 2131, 2133, 2141, 2170, 2180, 2226  
**Fish Abundance** 764, 1123  
**Fish and Wildlife Coordination Act of 1958 Compliance** 1869  
**Fish Behavior** 704, 1155, 1601, 1820, 2064  
**Fish Conservation** 1256, 1912, 1932, 2064  
**Fish Detection** 2029  
**Fish Diets** 1155, 1594  
**Fish Diseases** 1346  
**Fish Eggs** 822, 932, 1256  
**Fish Flesh Tainting** 1439, 2097  
**Fish Food** 1113  
**Fish Food Organisms** 1113, 1155  
**Fish Growth** 940  
**Fish Habitat** 532  
**Fish Harvest Rates** 1509  
**Fish Kill** 71, 1013, 1438  
**Fish Larvae** 201, 202, 671, 720, 819  
**Fish Management** 624, 947, 1492, 1493, 1601  
**Fish Migration** 207, 378, 1601  
**Fish Passages** 2064  
**Fish Physiology** 337, 449, 1113, 1932  
**Fish Populations** 378, 449, 624, 906, 1273, 1594, 1601, 1639, 2189  
**Fish Reproduction** 99, 1256, 1932  
**Fish Sampling** 1541  
**Fish Survey** 31, 43, 122, 231, 255, 499, 552, 737, 739, 741, 914, 1252, 1276, 1401, 1427, 1492, 1493, 1504, 1542  
**Fish Types** 624  
**Fisheries** 97, 250, 260, 339, 568, 624, 660, 670, 735, 1260, 1305, 1331, 1375, 1601, 2090  
**Fisheries Ecology** 2128  
**Fishery** 651, 739, 1078, 1123, 1227  
**Fishery Biology** 1554  
**Fishery Law** 735  
**Fishery Management** 136, 760, 777, 909, 1050, 1425, 1635, 1714, 1869, 2015, 2029, 2189, 2190  
**Fishery Resources** 432, 745, 778  
**Fishery Surveys** 201  
**Fishes** 53, 101, 200, 357, 476, 600, 662, 713, 714, 715, 830, 899, 901, 914, 969, 1019, 1044, 1351, 1399, 1472, 1597, 1691, 1820, 2138, 2154  
**Fishing** 413, 624  
**Fishing Gear** 30  
**Fishing Missouri River Guide Books** 1754  
**Fishing Montana Guide Books** 1754  
**Fishing Survey** 49, 413  
**Fishlife** 2  
**Flash Floods** 1225  
**Flat River Creek** 869  
**Flathead Catfish** 285, 378, 740, 831, 984, 1184, 1190, 1197, 1527, 1540, 1541, 1574, 1810  
**Flathead Chub** 1068, 1069, 2141  
**Flathead County** 150, 346, 347, 348, 349, 576, 828, 1736  
**Flaxville Formation** 2144  
**Flood** 469, 548, 921, 962  
**Flood Control** 14, 39, 129, 156, 164, 274, 367, 385, 388, 456, 457, 634, 744, 855, 878, 883, 947, 1021, 1071, 1097, 1405, 1482, 1563, 1619, 1725, 1798, 1891, 1895, 1910, 1912, 1913  
**Flood Control Tunnels** 388  
**Flood Crest** 635  
**Flood Damage** 39, 163, 367, 1024, 1118, 1366, 1894  
**Flood Data** 1894  
**Flood Discharge** 1366  
**Flood Effects** 635  
**Flood Flow** 635  
**Flood Forecasting** 15, 634, 1070, 1225  
**Flood Frequency** 437, 1070, 1332, 1333, 1334, 1335, 1366, 1388, 1655  
**Flood Hydrographs** 1366  
**Flood Impacts** 163  
**Flood Levels** 634  
**Flood Measurements** 1070  
**Flood of 1973** 93  
**Flood of 1993** 132, 290, 540, 559, 560, 644, 703, 738, 858, 859, 956, 1025, 1408, 1787, 1900  
**Flood Peak** 1334, 1335, 1366  
**Flood Predictions** 15, 634, 1070, 1225  
**Flood Prevention** 1693, 1894, 1895  
**Flood Profiles** 1894  
**Flood Protection** 315, 834, 1497, 1840, 1891  
**Flood Pulse** 560  
**Flood Recurrence Intervals** 635  
**Flood Stage** 540  
**Flooding** 29, 367, 540, 881, 981, 1004, 1118, 1279, 1454, 1737, 1839, 1840, 2209  
**Floodplain** 131, 173, 202, 224, 281, 302, 305, 316, 367, 417, 439, 456, 495, 523, 548, 594, 613, 614, 634, 635, 644, 778, 815, 876, 883, 887, 889, 957, 982, 993, 1071, 1129, 1130, 1131, 1452, 1473, 1556, 1593, 1630, 1692, 1737, 1840, 1871, 1894, 1920, 2101, 2123, 2128, 2152  
**Floodplain Development** 760  
**Floodplain Ecology** 559, 1787, 1812, 2212  
**Floodplain Management** 219, 249, 457, 560, 628, 635, 747, 858, 1024, 1025, 1693, 1902, 1903, 1904, 1905, 1906  
**Floodplain Protection** 889  
**Floodplain River** 1694  
**Floodplain Vegetation** 876  
**Floods** 15, 23, 39, 84, 85, 163, 204, 227, 246, 305, 338, 367, 409, 417, 495, 540, 597, 630, 638, 644, 682, 702, 878, 887, 889, 958, 981, 1024, 1070, 1118, 1205, 1329, 1332, 1333, 1334, 1335, 1366, 1374, 1376, 1453, 1563, 1604, 1619, 1625, 1690, 1728, 1755, 1803, 1894, 1898, 1984, 2078, 2122, 2135  
**Floods Mississippi River Valley** 1365  
**Floods Missouri River Valley** 1365  
**Floods Montana** 157  
**Floodwalls** 1894  
**Floodway** 1901  
**Flora** 738, 745, 1063

- Floral Studies** 203  
**Flow** 82, 109, 295, 580, 590, 886, 902, 980, 999, 1098, 1099, 1140, 1237, 1294, 1319, 1358, 1482, 1564, 1626, 1627, 1636, 1797, 1899, 2122, 2214  
**Flow Characteristics** 987, 1655  
**Flow Control** 1279, 1796  
**Flow Dispersion** 384  
**Flow Duration** 897, 1388, 1655  
**Flow Elocity** 758  
**Flow Management** 885  
**Flow Measurement** 1164  
**Flow Meters** 388  
**Flow Models** 1479  
**Flow Pattern** 1473  
**Flow Profiles** 2216  
**Flow Rate** 765, 897, 987, 1256, 1332, 1333, 1334, 1335, 1601, 1637, 1653, 1795  
**Flow Regulation** 1796  
**Flow Requirements** 566  
**Flow Resistance** 27  
**Flow Velocity** 862, 1155, 1164, 1573, 1601, 2215  
**Fluid Flow** 388  
**Fluorometry** 2173  
**Fluvial Environment** 238, 2144, 2163, 2186  
**Fluvial Features** 76, 95, 131, 161, 204, 281, 302, 305, 351, 373, 381, 390, 427, 465, 505, 523, 593, 616, 637, 839, 957, 1023, 1125, 1216, 1221, 1343, 1370, 1449, 1452, 1578, 1593, 1603, 1613, 1630, 1781, 1804, 1805, 1806, 1924, 2030, 2092, 2103, 2118, 2119, 2146, 2181, 2213  
**Fluvial Morphology** 777, 778, 864, 909, 1341  
**Fluvial Sedimentation** 915, 919, 2184  
**Fluvial Transport** 948  
**Folds** 1656  
**Folklore** 619  
**Food** 472, 721, 831, 1113, 1123, 1153, 1155, 1550, 1566, 1753  
**Food and Feeding** 942  
**Food Chains** 1753  
**Food Habits** 1, 64, 108, 212, 433, 472, 706, 1039, 1080, 1347, 1594, 1718, 2074, 2088, 2226  
**Forage Fish** 1  
**Forecasting** 481, 589, 834, 896, 1071, 1116, 1225, 1266, 1753  
**Forest** 958  
**Forest City** 563  
**Forest Damage** 644  
**Forest Roads** 1869  
**Forest Soils** 883  
**Forest Succession** 885  
**Forestry** 224, 883  
**Forests** 187, 367, 543, 548, 644, 887, 889, 926, 927, 1473, 1547, 1869, 2212  
**Fort Calhoun** 415  
**Fort Peck** 49, 1786  
**Fort Peck Dam** 77, 297, 300, 532, 1232, 1233, 1264  
**Fort Peck Lake** 96, 194, 1048, 1259, 1260, 1402, 1831, 1874, 1892, 1893, 2154  
**Fort Peck Reservoir** 1233, 1965  
**Fort Randall Dam** 388, 405, 928, 1023, 1107, 1264, 1448, 1555, 1878, 1879  
**Fort Randall Lake** 572, 738, 1266, 1622, 1641, 1642, 1644, 1646, 1648, 1882, 2015, 2017  
**Fort Union Formation** 2164  
**Fossil Assemblages** 1788  
**Fossil Fuels** 1389  
**Fossils** 986, 1093, 1788  
**Foundations** 1076, 1474, 1497  
**Fourier Analysis** 589, 1072  
**Fox Hills Formation** 2066  
**Fractionation** 10  
**Fractures** 1656  
**French Bar Mine** 1634, 2065, 2219  
**Frequency** 84, 682  
**Frequency Analysis** 987  
**Freshwater Biology** 1811  
**Freshwater Crustaceans** 2190  
**Freshwater Drum** 235, 769, 1314, 1768, 1770, 1771  
**Freshwater Ecology** 748, 1635, 1813  
**Freshwater Fish** 122, 202, 337, 495, 624, 710, 746, 871, 933, 935, 1155, 1232, 1401, 1404  
**Freshwater Fishes** 943  
**Freshwater Flora** 2049  
**Freshwater Ice** 42  
**Freshwater Marshes** 1913  
**Freshwater Molluscs** 1788  
**Freshwater Organisms** 869  
**Freshwater Pollution** 1404  
**Freundlich Equation** 677  
**Frontier and Pioneer Life Missouri Salt River Valley** 1313  
**Fry** 1256  
**Fulvic Acids** 10  
**Future Growth** 834  
**Future Planningprojected** 834  
**Fuzzy Sets** 2225  
**Gaging** 702, 2069  
**Gaging Stations** 2, 897, 987, 1653, 1655, 1673  
**Gallatin County** 310, 311, 1150, 1151, 1230, 1345, 1697, 1699, 2060, 2178  
**Gallatin River** 366, 840  
**Gamma Chlordane** 1204  
**Gamma Radiation** 1225  
**Gammon Member** 1657  
**Garrison** 103  
**Garrison Dam** 77, 124, 818, 1237, 1264, 1406, 1473, 1878, 1879, 2188  
**Garrison Diversion Unit** 109, 207, 236, 571, 598, 1050, 1169, 1351, 1352, 1765, 1923, 2140, 2225  
**Garrison Reservoir** 96, 108, 472, 680, 795, 873, 1117, 1234, 1259, 1293, 1347, 1355, 1392, 1707, 1708, 2070, 2071, 2073, 2074  
**Gas Chromatography** 464, 1204, 1773  
**Gasification** 24  
**Gastropods** 543, 1372  
**Gavins Point Dam** 152, 158, 159, 160, 162, 517, 600, 624, 646, 823, 826, 915, 916, 928, 1448, 1450, 1597, 1600, 1611, 1637, 1648, 1796, 1878, 1879  
**Gear** 798, 1574  
**Gems** 1634, 2065, 2126, 2174, 2218, 2219  
**General** 4, 685, 1593  
**General Description** 695  
**Genesis** 81, 1101, 1803  
**Genetic Variance** 871  
**Genetics** 871, 2180  
**Geochemistry** 10, 59, 69, 141, 341, 354, 393, 597, 598, 677, 1237, 1456, 1711, 1780, 2195, 2221  
**Geochronology** 9, 79, 81, 184, 302, 306, 320, 351, 373, 374, 391, 407, 416, 442, 505, 524, 543, 685, 686, 691, 1093, 1373, 1656, 1657, 1665, 1803, 1804, 1878, 1879, 2119, 2144, 2184, 2185  
**Geographical Distribution** 719, 822, 871, 1360, 1397, 1816, 2134, 2180  
**Geography** 253, 254, 276, 305, 307  
**Geohydrology** 701, 1632, 1665, 1766  
**Geologic** 391, 465  
**Geologic Formations, Lists, Sections, Tables** 351, 2119, 2177  
**Geologic Hazards** 227, 246, 391, 597, 985, 1205, 1449, 1604  
**Geologic History** 76, 188, 465, 616, 2119  
**Geologic Maps** 184, 351, 1772  
**Geologic Reconnaissance for Engineering Projects** 4  
**Geology** 27, 171, 224, 398, 459, 692, 1115, 1381, 1393, 1677, 2220  
**Geology Exploration** 303  
**Geometry** 160, 441, 1453  
**Geomorphology** 95, 131, 204, 254, 305, 306, 307, 373, 374, 407, 416, 465, 593, 637, 919, 957, 985, 1023, 1073, 1074, 1125, 1221, 1280, 1312, 1341, 1343, 1370, 1430, 1449, 1469,

- 1479, 1572, 1578, 1593, 1603, 1677,  
 1787, 1803, 1804, 2146, 2213, 2214  
**Geophysical Methods** 1205, 1603  
**Geophysical Surveys** 8, 840, 990,  
 1032, 1073, 1074, 1448, 1603, 1625  
**Geophysics** 171  
**Geothermal Gradient** 8  
**Geothermal Studies** 167  
**Geothermal Water** 959, 960  
**Gila Atraria** 1050  
**Gill Netting** 2061  
**Gizzard Shad** 87, 271, 626, 906,  
 1050, 1113, 1574, 2061  
**Glacial Aquifers** 1008  
**Glacial Diversion of the Missouri  
 River** 1806  
**Glacial Drift** 1673  
**Glacial Extent** 407, 524  
**Glacial Features** 306, 407, 478,  
 1803, 1805  
**Glacial Geology** 305, 306, 351, 407,  
 524, 839, 961, 1100, 1803, 1804,  
 2119, 2145, 2181  
**Glacial Lakes** 407, 1685, 1805  
**Glacial Sedimentation** 2184  
**Glaciated Soils** 141  
**Glaciation** 305, 306, 407, 524, 585,  
 1621  
**Glacier County** 1633  
**Glaciers** 305, 1677  
**Glasgow** 81, 1593  
**Global Warming** 533, 1476  
**Gold Ores** 1634, 2218  
**Goldeye** 293, 448, 472, 769, 795,  
 802, 868, 877, 1123, 1255, 1392,  
 1477, 1574, 1580  
**Goosebill Dome** 585  
**Government Agencies** 1678  
**Government Organizations** 2156  
**Government Policy** 1118, 1660  
**Governmental Interrelations** 1683,  
 1959, 2140  
**Governments** 1725  
**Graded** 253  
**Graded Bedding** 919  
**Gradients** 1308  
**Grafton Illinois** 1458  
**Grain Shapes** 1627  
**Grain Size** 159, 1033, 1344, 1613  
**Grand River Basin** 350, 479, 810,  
 2053, 2054, 2055  
**Granite County Montana** 2174  
**Granulometry** 1458  
**Graphical Analysis** 888  
**Grass Carp** 1397  
**Grasslands** 1677  
**Gravel** 306, 614, 2163, 2185  
**Gravity** 961  
**Gravity Faulting** 961  
**Grazing** 2106  
**Great Falls** 203, 832, 2157  
**Great Falls Lake** 585  
**Great Lakes** 789, 1960  
**Great Lakes Region** 218  
**Great Lignite Basin** 674  
**Great Plains** 83, 167, 674, 818, 924,  
 967, 985, 1077, 1125, 1344, 1449,  
 1555, 1578, 2144, 2174  
**Green River Basin** 3  
**Green Sunfish** 704  
**Greenhorn Cyclothem** 2186  
**Greenhouse Effect** 533  
**Gregory County** 536, 1498  
**Gregory County South Dakota** 405  
**Greyson Formation** 2218  
**Ground Water** 11, 94, 172, 190,  
 204, 215, 216, 281, 319, 320, 354,  
 379, 381, 386, 391, 442, 458, 461,  
 521, 522, 523, 598, 613, 614, 615,  
 701, 823, 833, 836, 841, 851, 861,  
 922, 937, 938, 965, 985, 988, 1008,  
 1138, 1278, 1431, 1438, 1476, 1555,  
 1619, 1653, 1677, 1678, 1732, 1772,  
 1779, 1782, 2100, 2148, 2157, 2184,  
 2221, 2222  
**Ground Water Allocation** 11  
**Ground Water Allocation Policy**  
 1145  
**Ground Water Atlas** 168, 458, 459,  
 460, 461, 701  
**Ground Water Basins** 459  
**Ground Water Flow** 938, 1556  
**Ground Water Irrigation** 1632  
**Ground Water Management** 1497,  
 1632  
**Ground Water Monitoring** 281  
**Ground Water Movement** 214, 614,  
 964, 2173  
**Ground Water Pollution** 1556  
**Ground Water Quality** 1632  
**Ground Water Recharge** 214, 937,  
 938, 1632  
**Ground Water Resources** 833, 1145  
**Ground Water Survey** 354  
**Growth** 275, 371, 446, 668, 889,  
 906, 1069, 1113, 1580, 1768, 2061  
**Growth Kinetics** 1473  
**Growth Rates** 224, 883, 1473  
**Guidebook** 78, 120, 220, 306, 1212,  
 2218  
**Gulf Coastal Plain** 1312  
**Gullies** 172, 814  
**Gully Erosion** 1005, 1563  
**Habitat** 56, 71, 97, 229, 342, 439,  
 587, 608, 663, 743, 819, 831, 860,  
 879, 969, 970, 984, 997, 1264, 1267,  
 1280, 1396, 1423, 1435, 1514, 1515,  
 1516, 1536, 1543, 1564, 1601, 1682,  
 1721, 1787, 1840, 1895, 1901, 1969,  
 1970, 1971, 1972, 1973, 1974, 1975,  
 2008, 2032, 2080, 2231  
**Habitat Alteration** 54, 285, 706,  
 793, 870, 1234, 2192  
**Habitat Change** 741  
**Habitat Improvement** 777, 870, 909,  
 947, 1254, 1913, 2190  
**Habitat Management** 1693  
**Habitat Requirements** 1581  
**Habitat Restoration** 560, 885, 1581,  
 1693  
**Habitat Use** 180  
**Habits** 721  
**Halides** 1456  
**Halogens** 1456  
**Hannibal Missouri** 1076  
**Harbors** 895, 1822  
**Hardin Irrigation Unit** 2106  
**Hardnesswater** 558, 2124  
**Harvest** 572, 624, 1124, 1487, 1509,  
 1579  
**Harvest Rate** 624  
**Harvest Rates** 616, 740, 839  
**Harvesting** 1232, 1257  
**Hazardous Materials** 1556  
**Hazards** 634  
**Hce** 1582  
**Headwaters** 193, 496, 692, 1383  
**Heat** 1389  
**Heat Budget** 584  
**Heat Flow** 8  
**Heat Transfer** 582  
**Heated Water** 256, 582, 1358  
**Heavy Metals** 710, 869, 1559, 1561,  
 1711, 1933  
**Hec Prm** 855  
**Helena Great Fallsmont** 1912  
**Helena Montana** 120, 2065, 2219  
**Hellbender** 1387  
**Hematology** 1346  
**Heptachlor** 857, 1013, 1582  
**Heptachlor Epoxide** 857, 1013,  
 1204  
**Herbicides** 281, 596, 597  
**Herbivores** 2205  
**Hermann** 597  
**Herpetile** 1152  
**Herpetofauna** 882, 1152, 1681  
**Herpetology** 882  
**Heteroceridae** 302  
**Heterocerus** 302  
**Heterogeneity** 523  
**Heterogeneous Materials** 381, 523  
**Heterozygosity** 1621  
**Hexagenia** 345, 845, 848  
**High Flow** 897, 1388, 1655  
**High Flow Regime Rating** 74  
**High Plains** 789  
**High Water Mark** 2005  
**Highways** 563  
**Highwood Mountains** 585  
**Hill Sites** 1308  
**Hiodon alosoides** 293, 448, 472, 769,  
 795, 802, 877, 1123, 1255, 1392,



- 1477, 1574, 1580  
**Hippomorpha** 2184  
**Historic** 173  
**Historic Accounts** 46, 664  
**Historic Floods** 39, 163, 540, 1118, 1894  
**Historic Habitat** 991  
**Historic Map** 2201  
**Historical Account** 777, 909  
**Historical Data** 829, 987, 2212  
**Historical Fish Collection** 356  
**Historical Flooding** 305, 958  
**Historical Geology** 184, 320, 351, 685, 689, 1100, 1772, 2119, 2177  
**Historical Survey** 628  
**History** 19, 46, 56, 77, 102, 170, 193, 230, 365, 392, 414, 619, 637, 664, 673, 854, 860, 954, 1148, 1396, 1572, 1604, 1619, 1628, 1674, 1729, 1750, 1910, 2007, 2065  
**Holocene** 9, 302, 391, 543  
**Holoscapites** 2066  
**Holt County** 192, 627, 2056  
**Hoop Nets** 1574  
**Hoover Dam** 919  
**Horizons** 9  
**Hudson Bay** 530, 1655, 2140  
**Hudson Bay Basin** 2, 1653  
**Hudson Bay Basin Montana Floods** 157  
**Hudson Bay Lowlands** 1988  
**Hughes County** 508, 509, 527  
**Hughes County South Dakota** 967  
**Human Activity** 246, 985, 1370, 1604  
**Human Ecology** 985, 1313, 1604  
**Humid Environment** 2186  
**Hunting** 530  
**Huntsdale** 1732  
**Hybognathus argyritis** 741  
**Hybognathus hankinson** 53  
**Hybognathus placitus** 210, 741  
**Hybopsis meeki** 621  
**Hybopsis gelida** 1423  
**Hybopsis gracilis** 1068, 1069  
**Hybopsis meeki** 1423  
**Hybridization** 252, 968  
**Hybrids** 2105  
**Hydraulic Conductivity** 141, 281, 522, 523, 939, 1732  
**Hydraulic Engineering** 158, 864  
**Hydraulic Fills** 1474  
**Hydraulic Geometry** 1479  
**Hydraulic Models** 497, 666, 827, 864, 1098, 1336, 1479, 1822, 1885, 1903  
**Hydraulic Similitude** 666  
**Hydraulic Structures** 259, 1336  
**Hydraulic Systems** 1406  
**Hydraulic Turbines** 1406  
**Hydraulics** 162, 256, 279, 381, 415, 523, 666, 862, 1073, 1074, 1098, 1336, 1435, 1627, 1638, 1714, 2209  
**Hydroacoustic Techniques** 1744  
**Hydrocarbons** 1395  
**Hydrodynamics** 381, 522, 635, 1833, 2208, 2214  
**Hydroelectric** 671  
**Hydroelectric Power** 3, 156, 204, 257, 315, 380, 404, 721, 855, 1270, 1305, 1325, 1406, 1725, 1726, 1917  
**Hydroelectric Power Plants** 42, 584, 854, 1725, 1910  
**Hydroelectric Project Licensing** 1725  
**Hydrogen Ion Concentration** 2124  
**Hydrogeologic Maps** 1431  
**Hydrogeology** 11, 94, 160, 168, 190, 204, 215, 318, 354, 390, 391, 405, 441, 442, 459, 460, 478, 521, 522, 523, 613, 638, 702, 823, 826, 833, 841, 988, 990, 1101, 1138, 1237, 1343, 1344, 1431, 1572, 1578, 1603, 1626, 1732, 1987, 1988, 2059, 2157  
**Hydrographs** 253, 341, 614, 634, 760, 778, 964, 987, 1312, 1674, 2122  
**Hydrography** 760  
**Hydrologic Data** 459  
**Hydrologic** 168  
**Hydrologic Aspects** 1677  
**Hydrologic Budget** 701  
**Hydrologic Data** 2, 429, 460, 896, 987, 1008, 1070, 1332, 1333, 1334, 1335, 1364, 1653, 1934  
**Hydrologic Models** 366, 404  
**Hydrologic Properties** 521, 999  
**Hydrologic Studies** 1225  
**Hydrology** 11, 14, 94, 160, 166, 168, 171, 204, 205, 215, 218, 227, 236, 238, 246, 259, 279, 280, 318, 341, 384, 390, 398, 405, 429, 441, 478, 521, 523, 593, 597, 598, 615, 628, 634, 638, 680, 702, 778, 823, 825, 826, 855, 856, 958, 981, 990, 991, 999, 1073, 1074, 1101, 1115, 1125, 1128, 1138, 1205, 1216, 1221, 1237, 1274, 1278, 1305, 1339, 1343, 1344, 1408, 1431, 1449, 1450, 1456, 1514, 1555, 1562, 1572, 1578, 1603, 1613, 1626, 1630, 1639, 1674, 1676, 1677, 1714, 1732, 1781, 1782, 1797, 1833, 1843, 1878, 1879, 1891, 1987, 1988, 2059, 2077, 2100, 2122  
**Hydrology Models** 824  
**Hydrometeorology** 981  
**Hydropower** 1024, 1209, 1266  
**Hydropsyche** 1154  
**Hydrostatic Pressure** 1497  
**Hydrostatics** 1406  
**Hypophthalmichthys molitrix** 339  
**Hysterothylacium dollfusi** 1346  
**Illuvial** 823, 824, 825, 915  
**Iatan** 78  
**Iatan Formation** 391  
**Ice** 1608, 2208, 2209  
**Ice Cover** 1722  
**Ice Jams** 42  
**Ice Sheets** 407  
**Ichnofossils** 302  
**Ichthyocides** 1050  
**Ichthyofaunal** 1152  
**Ichthyology** 1170  
**Ichthyomyzon** 361  
**Ichthyomyzon unicuspis** 54  
**Ichthyoplankton** 286, 671, 819, 1809  
**Ictalurus furcatus** 740  
**Ictalurus melas** 1204, 1477, 1564  
**Ictalurus punctatus** 285, 289, 377, 378, 446, 624, 668, 707, 739, 769, 772, 1204, 1273, 1527, 1566, 1718, 1972, 2071, 2075, 2226  
**Ichthyofauna** 206  
**Ictiobus** 769, 1062, 1204, 1255, 2166, 2169  
**Ictiobus bubalus** 448, 1080, 2089  
**Ictiobus cyprinellus** 448, 1080, 1157, 1204, 1574, 2089  
**Idaho** 1212  
**Identification** 2125  
**Igneous Rocks** 695, 696, 697  
**Illinoian** 79  
**Illinoian Age** 2118  
**Illinois** 341, 524, 597, 1073, 1074, 1452, 1456, 1458  
**Illinois River** 69, 341, 597, 677, 1458, 1780  
**Imagery** 1205, 1370, 1448  
**Immigration** 1387  
**Immunodiffusion** 1346  
**Immunology** 1346  
**Immunoprecipitation** 1346  
**Impact Assessment** 1411  
**Impact Statements** 818, 1312  
**Impacts** 831, 1514, 1669  
**Impingement** 1331, 1481  
**Impoundments** 64, 98, 135, 448, 558, 706, 721, 798, 1019, 1235, 1843, 2081, 2154, 2190  
**Inarticulata** 986  
**Index Maps** 1431  
**Indian Reservations** 135, 241, 379, 841, 1683  
**Indian Rights** 1325  
**Indian Water Rights** 1683  
**Indians** 22  
**Indicator Species** 482  
**Indicators** 1439, 2097, 2173  
**Indirect Benefits** 2106  
**Induced Infiltration** 964  
**Industrial Expansion** 834  
**Industrial Plants** 834

- Industrial Wastes** 337, 675, 1404, 1929, 1933, 1934, 2038  
**Industrial Water** 430, 458, 1077, 1917, 2077  
**Infiltration** 172, 1632  
**Influent Streams** 2205  
**Information Handling** 540  
**Information Systems** 2077  
**Infrared Imagery** 355  
**Infrared Methods** 1603  
**Infrared Radiation** 355  
**Inhomogeneous Materials** 1732  
**Injuries** 1551  
**Inland Water Transportation** 130  
**Inland Waters** 1030  
**Inland Waterways** 26, 435, 1728  
**Input Output Analysis** 429  
**Insects** 229, 302, 1105, 1816  
**Insecys** 1360  
**Institutions** 2159  
**Instream Flow** 1162, 1974, 2102  
**Instream Water Use** 404  
**Instrumentation** 1164  
**Instruments** 1458, 1781  
**Intangible Factors** 2225  
**Intake** 1785  
**Intake Systems** 415  
**Intakes** 1256, 1336, 2064  
**Intakes Structures** 1336  
**Inter Agency Cooperation** 1910  
**Interagency Sedimentation Project** 1674  
**Interbasin Transfers** 68, 1476, 1910  
**Interceptor Sewers** 980  
**Interglacial Periods** 502  
**International Agreements** 2140  
**International Joint Commission** 2140, 2225  
**International Law** 236  
**Interpretation** 832, 1458, 1657  
**Interspecific Relationships** 258, 1813  
**Interstate Compacts** 629, 2005, 2159  
**Interstate Rivers** 82, 629, 1959, 1998, 2159  
**Introduced Species** 201, 1050, 2116, 2190  
**Intrusions** 585, 695, 696, 697, 2126  
**Inventory** 1038, 1600  
**Inventory Study** 1129, 1871  
**Invertebrate** 103, 1602  
**Invertebrate Larvae** 1207  
**Invertebrates** 73, 143, 153, 184, 229, 261, 263, 294, 302, 345, 472, 543, 626, 674, 693, 706, 891, 986, 1088, 1093, 1154, 1282, 1294, 1372, 1573, 1623, 1767, 2008, 2066, 2090, 2186, 2192  
**Investigations** 398  
**Ion Exchange** 10  
**Ions** 103, 393  
**Iowa** 10, 11, 35, 37, 82, 129, 131, 144, 146, 214, 227, 241, 341, 373, 374, 387, 481, 524, 543, 594, 597, 624, 637, 638, 662, 668, 823, 915, 987, 1005, 1073, 1074, 1204, 1218, 1342, 1430, 1456, 1563, 1578, 1608, 1613, 1614, 1637, 1781, 1800, 1833, 1869, 1878, 1879, 1987, 2005, 2155, 2171, 2172, 2184, 2186, 2213  
**Iowan Erosion Surface** 131  
**Iron** 393, 2221  
**Irrigation** 68, 77, 94, 156, 164, 314, 315, 379, 458, 531, 534, 571, 598, 818, 861, 1029, 1071, 1077, 1140, 1263, 1325, 1555, 1619, 1765, 1910, 1912, 1923, 2057, 2064, 2077, 2225  
**Irrigation Canals** 1913, 1915  
**Irrigation Effects** 141, 1620  
**Irrigation Engineering** 1256, 1999  
**Irrigation Permits** 1256  
**Irrigation Programs** 1913, 2106  
**Irrigation Requirement** 1620  
**Irrigation Systems** 135, 1913, 1915, 2106  
**Irrigation Water** 141, 207, 404, 1305, 1915, 2064  
**Island Creek Shale** 2148  
**Islands** 608, 1514, 2005  
**Isoenzymes** 968  
**Isolation** 10  
**Isostasy** 306  
**Isotopes** 238, 524  
**Isotropic Materials** 381, 523  
**Jacks Fork River** 2156  
**James River** 571, 1564, 1603, 1632  
**James River Basin** 191, 598, 1445, 1498, 1609, 2009  
**Jefferson County** 142, 564  
**Jefferson River** 840  
**Joints** 1656  
**Judicial Decisions** 82, 135, 164, 241, 2005  
**Jurassic** 686, 2157  
**Juveniles** 1559  
**Kansas** 79  
**Kansas** 11, 78, 79, 146, 227, 302, 352, 357, 387, 391, 407, 413, 416, 689, 693, 851, 897, 1116, 1449, 1497, 1555, 1578, 1803, 1804, 1869, 1894, 1933, 1987, 1998  
**Kansas City** 85, 337, 417, 460, 938, 939, 1497, 1773  
**Kansas City International Airport** 78  
**Kansas City Kansas** 851  
**Kansas City Missouri** 1630  
**Kansas River** 18, 407, 408, 1389, 1933, 1960, 2148  
**Kansas River Basin** 2215  
**Kansas River Valley** 1803  
**Karst** 1544  
**Kettles** 478  
**Kimberlitic Rocks** 695  
**Kindschi Lake** 478  
**Kiowa Skull Creek Cyclothem** 2186  
**Kissimmee River** 2092  
**Knees** 585  
**Knox County** 787  
**Kolmogorov Smirnov Test** 589  
**Kootenay Formation** 203, 832, 2157  
**Lactate Dehydrogenase** 2180  
**Lacustrine** 238, 478, 1469, 1576, 1685  
**Lake Arikaree** 1805  
**Lake County** 349  
**Lake Francis Case** 96, 294, 295, 345, 545, 572, 1062, 1064, 1109, 1113, 1124, 1622, 1738, 1882, 2023, 2086  
**Lake Michigan** 1753  
**Lake Oahe** 86, 94, 124, 211, 212, 221, 238, 526, 679, 901, 902, 903, 920, 986, 1039, 1123, 1157, 1158, 1252, 1253, 1314, 1485, 1486, 1487, 1488, 1580, 1623, 1624, 1715, 1716, 1718, 1744, 1868, 1878, 1879, 1913, 1931, 2049, 2098, 2116  
**Lake Sakakawea** 275, 433, 535, 598, 712, 811, 940, 996, 997, 998, 1103, 1260, 1347, 1361, 1415, 1425, 1427, 1428, 1465, 1469, 1570, 1572, 1696, 1716, 1818, 2070, 2072, 2073, 2074, 2075, 2104, 2105, 2166, 2169, 2190  
**Lake Sharpe** 86, 87, 96, 98, 446, 447, 448, 449, 466, 527, 626, 676, 679, 900, 906, 907, 908, 967, 1314, 1436, 1588, 1868, 1883  
**Lake Superior** 218  
**Lake Winnipeg** 242  
**Lake Yankton** 153  
**Lakes** 2, 207, 218, 379, 407, 845, 1064, 1619, 1653, 1654, 1805, 1915  
**Lamine River** 1720  
**Lamprey** 361  
**Land Acquisition** 219, 1869  
**Land Development** 834, 1686, 2106  
**Land Disposal** 1022  
**Land Management** 205, 481, 1677, 1869, 2106, 2179  
**Land Reclamation** 14, 205, 747, 1381  
**Land Resources** 1628  
**Land Settlement Patterns** 1313  
**Land Slope** 276  
**Land Surfaces** 1101  
**Land Use** 246, 417, 558, 815, 818, 834, 889, 948, 985, 1071, 1083, 1216, 1381, 1625, 1630, 1755, 1924, 2044  
**Land Values** 1891, 2038

- Landfills** 1474, 1556  
**Landform Description** 307, 416, 1430  
**Landform Evolution** 161, 637, 985, 1469, 1578, 1804  
**Landforms** 1593  
**Landsat** 840, 1032, 1370, 1450  
**Landsat 1** 1205  
**Landscape Ecology** 173, 985  
**Landscapes** 985, 1430, 1544  
**Landscaping** 947  
**Landslides** 985  
**Laplace Transforms** 1005  
**Large Rivers** 1454  
**Largemouth Bass** 704, 2040  
**Larvae** 286, 1062, 1809  
**Larval** 2188  
**Larval Fish** 200, 233, 950, 2191  
**Lateral Conveyance Structures** 1915  
**Laurentide Ice Sheet** 524  
**Laws and Legislation** 67, 236, 241, 385, 501, 1128, 1144, 1660, 1792, 1794, 1798, 1910, 1923, 1924, 1925, 2005, 2159  
**Leaching** 59, 1614  
**Lead** 857, 869  
**Least Tern** 796, 977, 1280, 1559, 1682, 1814  
**Leavenworth** 352  
**Leavenworth County Kansas** 391  
**Lebensspuren** 302  
**Legal Aspects** 82, 135, 236, 315, 582, 629, 1726, 2005  
**Legislation** 11, 629, 735, 1118, 1604, 1725, 1878, 1879, 1930, 2005  
**Length Weight Relationship** 1068  
**Length Weight Relationships** 931, 935, 1069  
**Lentic Environment** 1282  
**Lepisosteus platostomus** 1765  
**Lepomis cyanellus** 704  
**Lepomis macrochirus** 1204  
**Lepomis marginatus** 871  
**Lepomis megalotis** 871  
**Levees** 437, 634, 635, 834, 1021, 1129, 1497, 1693, 1728, 1871, 1894, 1895  
**Levels** 381, 523, 851, 988, 1431, 1555, 1604, 1678  
**Lewis and Clark** 230, 303, 304, 440  
**Lewis and Clark County** 63, 142, 445, 452, 550, 880, 1337  
**Lewis and Clark County Montana** 120, 1634, 2065, 2174, 2218, 2219  
**Lewis and Clark Lake** 96, 98, 103, 153, 294, 295, 345, 551, 848, 877, 1080, 1155, 1250, 1251, 1311, 1557, 1558, 1602, 1663, 1739, 1767, 1768, 1770, 1771, 1778, 2040, 2048, 2051, 2079, 2080, 2081, 2083, 2085, 2088, 2089, 2192  
**Lewis M** 304, 1170  
**Lexington** 81  
**Life Cycles** 1154  
**Life History** 80, 197, 706, 795, 913, 1069, 1085, 1245, 1261, 1352, 1509, 1554, 2080  
**Light** 2205  
**Lignite** 1381  
**Lime Sludge** 146  
**Limestone** 2148, 2157, 2195  
**Limnology** 71, 87, 125, 126, 233, 294, 449, 562, 626, 721, 831, 906, 907, 908, 984, 1061, 1091, 1113, 1115, 1116, 1199, 1234, 1235, 1260, 1294, 1314, 1392, 1437, 1566, 2071, 2162, 2205  
**Lincoln County** 147, 178  
**Lindane** 1013  
**Lineaments** 840, 1656  
**Linear Multiple Regression Techniques** 74  
**Linear Programming** 525  
**Linear Regression** 1266  
**Lingula** 986  
**Lipids** 857  
**Lithofacies** 832, 1656, 1657, 2163  
**Lithostratigraphy** 391, 832, 2186  
**Little Missouri R. B.** 119, 972  
**Little Missouri River** 17, 1392  
**Livestock** 163, 1930  
**Living Taxa** 302  
**Livingston County** 2054  
**Local Planning** 219  
**Locks** 26, 854  
**Loess** 81, 172, 276, 391, 481, 524, 1308, 1372, 1800, 1802  
**Loess and Alluvial Deposits** 374  
**Loess Hills** 543, 1430  
**Lonetree Reservoirs** 571  
**Long Range Study** 1369  
**Long Term Changes** 819, 1401  
**Long Term Planning** 2041  
**Longear Sunfish** 871  
**Longitudinal Dispersion** 497  
**Lota Lota** 737, 764, 991  
**Lotic Environment** 1282  
**Louisiana** 1312, 1456, 1674  
**Loveland Loess** 524  
**Lovestone Mine** 1634  
**Low Flow** 897, 987, 1364, 1388, 1608, 1655, 1673, 1796, 1932  
**Low Flow Regime Rating** 74  
**Lower Brule Indian Reservation** 841  
**Lower Cretaceous** 203, 832, 2157, 2186  
**Lower Kansas River Basin** 2215  
**Lower Mississippi River** 2215  
**Lower Missouri River** 2215  
**Lower Missouri River Basin** 172, 1116  
**Lower Platte River** 1384  
**Lower Pleistocene** 79  
**Macrhybopsis aestivalis** 741  
**Macrhybopsis gelida** 741, 1978, 2141  
**Macrhybopsis meeki** 741  
**Macrhybopsis storeriana** 741  
**Macrofauna** 295  
**Macroinvertebrates** 43, 73, 153, 206, 261, 599, 721, 1152, 1310, 1815  
**Macrophages** 1346  
**Macrophytes** 1022  
**Macrhybopsis** 1166  
**Madison County** 529, 1345  
**Madison Group** 2157  
**Madison River** 366, 840, 1576  
**Maestrichtian** 2066  
**Magnitude** 962  
**Main Stem Dams** 1449  
**Maintenance** 2038  
**Maintenance Costs** 531  
**Major Element Analyses** 833  
**Malacostraca** 143  
**Malathion** 1013  
**Mammals** 16, 1279, 2043, 2045, 2184  
**Man Induced Effects** 760, 774, 777, 909, 948, 1401  
**Management** 97, 98, 109, 375, 396, 525, 736, 798, 982, 1144, 1245, 1276, 1293, 1402, 1645, 1798, 1878, 1920, 1930, 1982, 2023, 2159  
**Management Planning** 496  
**Manawa Lake, Iowa** 1925  
**Mandibulata** 143, 302  
**Manganese** 393, 1138  
**Manitoba** 236, 502, 1453, 2140  
**Map** 1148, 1667  
**Maps** 168, 305, 351, 391, 397, 438, 465, 549, 642, 697, 833, 840, 987, 988, 1208, 1216, 1224, 1431, 1619, 1772, 1783, 1819, 2120, 2121, 2135, 2143, 2196, 2197, 2198, 2199, 2200  
**Marias River Basin** 525  
**Marinas** 827, 1885  
**Marine Environment** 597  
**Marine Fish** 710  
**Mark and Recapture** 712, 1167, 1611  
**Marsh** 970  
**Marshes** 1594  
**Marsipomtra hastata** 1107  
**Mass Movements** 676, 985, 1544  
**Mastodon** 2184  
**Materials, Properties** 276, 593, 1685  
**Mathematical Equations** 863, 1046, 1722, 2216  
**Mathematical Methods** 441  
**Mathematical Models** 259, 278, 279,

- 437, 480, 516, 525, 581, 584, 613,  
614, 814, 823, 862, 885, 915, 955,  
991, 1005, 1358, 1390, 1497, 1578,  
1712, 1732, 1796, 2041  
**Mathematical Studies** 582, 589,  
1046, 1479, 1637, 1891, 2216  
**Mayflies** 73, 721, 848, 1154, 1155,  
1282  
**Mc Lean County** 270, 462, 1709  
**McBaine** 81, 522, 523  
**Mcintosh County** 792  
**Mckenzie County North Dakota**  
354  
**Mclean County North Dakota** 1469  
**Mcperson County** 536  
**Meandering Rate** 885  
**Meanders** 82, 95, 427, 497, 637,  
887, 889, 999, 1021, 1341, 1593,  
2005  
**Measurement** 1213, 1560, 1711  
**Measuring Techniques** 769  
**Mechanical Drawings** 1406  
**Medicine Lake** 1008  
**Meltwater** 305  
**Meramec River Basin** 1610  
**Mercer County** 270  
**Mercer County North Dakota** 1469  
**Mercury** 710, 857, 1404, 1931,  
2098, 2099  
**Mesozoic** 143, 203, 320, 336, 563,  
674, 676, 685, 686, 690, 691, 832,  
961, 967, 986, 1656, 1657, 1878,  
1879, 2066, 2157, 2177, 2186  
**Metabolism** 1154  
**Metabolites** 1204  
**Metal Ores** 1634, 2218  
**Metals** 18, 25, 71, 238, 598, 1138,  
1576, 1780, 2221  
**Metamorphism** 120  
**Meteorological Data** 1722  
**Meteorology** 398  
**Method of Characteristics** 278  
**Methodology** 955  
**Methods** 10, 255, 620, 1370, 1625  
**Methyl** 1013  
**Methylmercury** 710  
**Microcomputers** 851  
**Microfossils** 9, 2186  
  
**Micropterus dolomieu** 968, 1494,  
1973, 2040  
**Micropterus punctulatus** 968  
**Micropterus salmoides** 704, 708,  
1204, 2040  
**Midcontinent** 1544, 1732  
**Middle Pliocene** 2144  
**Middle Proterozoic** 2218  
**Midge Larvae** 295  
**Midges** 73, 295, 721, 907  
**Migration** 207, 530, 1387  
**Milk River** 392, 829, 1341, 2134  
  
**Milk River Basin** 525  
**Mills County Iowa** 543, 2184  
**Mine Drainage** 849  
**Mine Wastes** 835  
**Mineral Composition** 81, 694, 2186  
**Mineral Resources** 120, 391, 434,  
465, 842, 1212  
**Minerals** 1896  
**Mines** 352, 2148, 2174, 2218  
**Mining** 14, 24, 71, 869, 949, 1381,  
1404, 2065, 2164  
**Mining Wastes** 1404  
**Minnesota** 11, 218, 872, 1456  
**Minnesota River** 1603  
**Minnnows** 53, 87, 359, 741, 764, 991,  
1574  
**Miocene** 2144, 2184  
**Miospores** 9  
**Misnomer of Scoria** 1666  
**Mississippi** 81, 252, 701, 1073, 1074,  
1456, 2212  
**Mississippi Missouri River Basin**  
404, 1722  
**Mississippi River** 23, 26, 68, 69, 81,  
93, 146, 231, 246, 251, 254, 341,  
351, 437, 582, 583, 584, 675, 677,  
710, 819, 839, 854, 857, 895, 987,  
1013, 1071, 1073, 1074, 1076, 1138,  
1164, 1204, 1312, 1374, 1390, 1398,  
1452, 1453, 1455, 1456, 1458, 1573,  
1582, 1638, 1659, 1674, 1690, 1753,  
1780, 1822, 1839, 1932, 1960, 1988,  
2092, 2119, 2124, 2125, 2155, 2215,  
2216  
**Mississippi River Basin** 596, 597  
**Mississippi Valley** 131, 246, 341,  
677, 1205, 1456, 1613, 1638, 1780,  
1782, 1988, 2092  
**Mississippian** 2157  
**Missouri** 11, 26, 59, 62, 78, 79, 81,  
85, 146, 169, 175, 176, 177, 178,  
179, 184, 190, 192, 226, 227, 237,  
245, 251, 313, 337, 341, 350, 387,  
391, 416, 437, 460, 461, 479, 481,  
504, 522, 523, 553, 557, 597, 613,  
622, 624, 627, 633, 652, 683, 810,  
820, 834, 853, 869, 936, 980, 1005,  
1058, 1072, 1073, 1074, 1076, 1099,  
1108, 1116, 1138, 1142, 1159, 1216,  
1218, 1229, 1363, 1367, 1372, 1396,  
1398, 1399, 1400, 1412, 1456, 1539,  
1544, 1567, 1568, 1578, 1593, 1610,  
1630, 1673, 1678, 1720, 1732, 1737,  
1751, 1869, 1895, 1987, 1998, 2053,  
2054, 2055, 2056, 2149, 2151, 2156  
**Missouri and White Rivers** 2119  
**Missouri Basin Inter Agency**  
**Committee** 315  
**Missouri Coteau** 306  
**Missouri, Niangua R.** 1387  
**Missouri River Alluvium** 458, 461  
  
**Missouri River Automated Data**  
**System** 990  
**Missouri River Basin, Engineering**  
**Geology Problems** 414  
**Missouri River Basin Montana**  
**Floods** 157  
**Missouri River Basin Plains** 4  
**Missouri River Basin Project** 2106  
**Missouri River Breaks** 695, 696,  
697  
**Missouri River Cross Sections** 2119  
**Missouri River Nebraska Reservoir**  
**Releases** 721  
**Missouri River Preglacial Course**  
2181  
**Missouri River Region** 336, 685,  
686, 690, 691, 1002, 1800, 1802  
**Missouri River Shifting** 427  
**Missouri River System** 694  
**Missouri River Trench Formation**  
961  
**Missouri River Upper Region** 2145  
**Missouri River Watershed** 1060,  
1794  
**Missouri Salt River Valley History**  
1313  
**Missouri Valley** 2177  
**Missourian** 391, 2148  
**Mitigation** 747, 1669, 1868, 1869,  
2231  
**Mixing** 256, 497, 862, 1358, 1576,  
2215  
**Model Studies** 256, 278, 366, 388,  
404, 429, 480, 497, 581, 589, 614,  
635, 937, 938, 1005, 1021, 1083,  
1099, 1225, 1319, 1358, 1479, 1497,  
1632, 1753, 1795, 1796, 1822, 2214,  
2216  
**Modeling** 918, 1411  
**Models** 160, 161, 162, 171, 190,  
215, 225, 279, 382, 403, 405, 415,  
634, 660, 666, 760, 823, 826, 827,  
851, 855, 999, 1031, 1075, 1090,  
1336, 1369, 1452, 1499, 1500, 1576,  
1797, 1814, 1899, 1970, 1971, 1972,  
1974  
**Modflow** 281  
**Moisture** 1603  
**Moisture Uptake** 1620  
**Molluscan Faunas** 1373  
**Molluscs** 432  
**Mollusks** 370, 543, 674, 986, 1372,  
2008, 2066, 2186  
**Molybdenum** 25  
**Monitoring** 281, 398, 596, 613, 659,  
721, 819, 857, 960, 1205, 1638,  
1929, 1998  
**Monona County Iowa** 214, 215  
**Montana** 2, 3, 11, 24, 44, 49, 63, 76,  
119, 120, 121, 142, 147, 150, 203,  
225, 243, 244, 264, 298, 299, 305,

310, 311, 346, 347, 348, 349, 392,  
403, 404, 429, 442, 443, 445, 452,  
453, 465, 525, 529, 541, 550, 564,  
576, 585, 612, 658, 685, 687, 695,  
696, 697, 802, 815, 822, 828, 830,  
832, 833, 839, 840, 842, 880, 959,  
960, 1008, 1019, 1034, 1040, 1041,  
1042, 1150, 1151, 1161, 1212, 1230,  
1231, 1233, 1246, 1305, 1332, 1333,  
1334, 1335, 1337, 1345, 1364, 1366,  
1381, 1383, 1385, 1432, 1433, 1434,  
1449, 1461, 1508, 1576, 1578, 1604,  
1633, 1634, 1651, 1653, 1654, 1655,  
1684, 1685, 1697, 1699, 1700, 1726,  
1736, 1772, 1791, 1817, 1912, 1924,  
1987, 2046, 2060, 2065, 2106, 2126,  
2144, 2156, 2157, 2174, 2178, 2179,  
2181, 2182, 2183, 2205, 2218, 2219  
**Madison County** 2217  
**Montana North Dakota** 839  
**Montana Territory** 1034  
**Monthly Rating Curves** 74  
**Moraines** 306, 1430  
**Morone americana** 719  
**Morone chrysops** 1062, 1113, 1204,  
1255, 1557, 1558  
**Morphology** 9, 143, 203, 302, 906,  
2066  
**Morphology Organisms** 2134, 2180  
**Morphometry** 345, 933  
**Morrison Formation** 2157  
**Mortality** 235, 261, 672, 906, 950,  
2061  
**Mosaics** 305  
**Mosquito** 1360  
**Movement** 59, 168, 215, 281, 381,  
522, 772, 1155, 1387, 1509, 1576,  
1678, 1732  
**Movements** 180  
**Moxostoma** 1501  
**Moxostoma macrolepidotum** 371  
**Mucilage** 258  
**Mud** 845  
**Mud Cracks Forming over Water**  
2101  
**Mudcracks** 2101  
**Mudstone** 832, 2185  
**Multiple Purpose Projects** 164,  
947, 1798, 1910, 2225  
**Multiple Purpose Reservoirs** 164,  
1913  
**Municipal Wastes** 169, 675, 1929,  
1934, 2038, 2097  
**Municipal Water** 404, 458, 1582  
**Mussel** 369  
**Mussels** 317, 432  
**Musselshell River Basin** 1684  
**Mutagens** 849  
**Mysis Relicta** 2190  
**Nanocladius Downesi** 1813  
**National Environmental Policy Act**

1726, 1895  
**National Parks** 2179  
**Natural Flora** 1308  
**Natural Flow** 897  
**Natural Gas** 842, 1657, 2177  
**Natural History** 194, 230, 611,  
2023  
**Natural Hydrographs** 744  
**Natural Resources** 3, 82, 924, 947,  
1216  
**Natural Seedfall** 548  
**Nature Conservation** 760, 1737  
**Navigable Rivers** 26, 82, 135, 1728,  
1796, 2179  
**Navigation** 26, 129, 130, 156, 164,  
315, 592, 666, 744, 819, 855, 1305,  
1405, 1482, 1728, 1822, 1870, 1885,  
1910, 1969  
**Navigation Canals** 854  
**Nebraska** 3, 11, 35, 37, 146, 159,  
220, 227, 241, 276, 289, 320, 341,  
374, 387, 393, 398, 460, 464, 600,  
624, 646, 686, 719, 733, 758, 765,  
781, 787, 826, 915, 935, 947, 990,  
1023, 1032, 1044, 1073, 1074, 1177,  
1194, 1200, 1201, 1216, 1218, 1221,  
1273, 1317, 1330, 1363, 1384, 1449,  
1555, 1566, 1578, 1608, 1626, 1637,  
1686, 1750, 1781, 1833, 1878, 1879,  
1960, 1987, 1998, 2163, 2186, 2213,  
2229, 2231  
**Nebraska City** 1221, 1637  
**Nebraska, Missouri R.** 1553  
**Nebraska, Sioux City,** 1885  
**Nebraskan** 79  
**Neogene** 442, 2144, 2184  
**Neoptera** 302  
**Neotectonics** 120  
**Nests** 1280  
**Net Consumption** 431  
**Netting Survey** 1707, 1708  
**Network Flow** 486  
**Neurocordulia molesta** 1816  
**Nevada** 3  
**New Names** 2144  
**New Records** 242, 258, 822, 1360,  
1553, 1816, 2134  
**New Taxa** 143, 203  
**Niobrara Formation** 1657, 1878,  
1879  
**Niobrara River** 1317  
**Niobrara River Basin** 787  
**Nishnabotna Member** 2186  
**Nitrate Ion** 2221  
**Nitrates** 597  
**Nitrite Ion** 2221  
**Nitrogen** 207, 1047, 1614, 1796,  
2124, 2205, 2221  
**Nitrogen Compounds** 393  
**Nodaway River** 1138  
**Non Consumptive Use** 431

**Non Linear Regression** 1266  
**Non Point Source** 1711  
**Non Point Source Pollution** 1083  
**Non Structural Alternatives** 26,  
1071, 1686, 1930  
**Non Uniform Flow** 2215  
**Nonpoint Source** 2041  
**North American Water and Power  
Alliance** 68  
**North Central District** 191, 217,  
508, 509  
**North Central River** 1225  
**North Dakota** 11, 17, 24, 25, 53, 82,  
164, 207, 224, 229, 236, 270, 305,  
306, 354, 355, 370, 456, 457, 462,  
478, 558, 571, 653, 674, 685, 713,  
714, 715, 792, 808, 818, 822, 839,  
883, 889, 927, 932, 972, 1022, 1237,  
1290, 1305, 1381, 1406, 1431, 1440,  
1445, 1449, 1469, 1473, 1572, 1578,  
1603, 1604, 1609, 1619, 1632, 1657,  
1666, 1677, 1709, 1775, 1805, 1840,  
1915, 1923, 1960, 1987, 1998, 2037,  
2140, 2225  
**North Loup River** 276  
**North Platte River Neb** 1960  
**Northeastern Montana** 2144  
**Northeastern Nebraska** 2163, 2186  
**Northern Cascade County Montana**  
2157  
**Northern Great Plains** 818, 1629  
**Northern Pike** 447, 769, 900, 901,  
1158, 1477, 1564, 1621  
**Northern Redhorse** 371  
**Northern Region** 810  
**Northwestern Iowa** 2186  
**Notched Dikes** 1220  
**Notched Structures** 1901  
**Notropis Atherinoides** 551  
**Nuclear Power Plants** 167, 233, 260,  
263, 283, 284, 285, 355, 398, 415,  
482, 584, 670, 672, 720, 746, 748,  
774, 775, 1222, 1336, 1389, 1459,  
1475, 1753, 1758, 1807  
**Nuclear Waste** 167  
**Numerical Analysis** 158, 919, 1390  
**Numerical Models** 851  
**Nutrient Removal** 1614  
**Nutrients** 169, 207, 341, 765, 887,  
1064, 2205, 2222  
**Nymphs** 1816  
**Oahe Dam** 77, 563, 961, 1099, 1406,  
1448  
**Oahe Reservoir** 9, 41, 88, 96, 98,  
103, 271, 555, 556, 680, 891, 900,  
904, 964, 1140, 1234, 1257, 1293,  
1436, 2099  
**Oak** 1547  
**Oak Trees** 1473  
**Oakes Aquifer** 1632  
**Objective Functions** 525

- Observation Wells** 1008  
**Observationwells** 281  
**Occurrence** 25, 69, 258  
**Ocean Floors** 151  
**Odor** 464, 675, 1929, 2038  
**Ogallala Aquifer** 218, 1555  
**Ogallala Formation** 442, 2184, 2185  
**Ohio River** 69, 254, 341, 629, 677, 1455, 1456, 1458, 1659, 1753  
**Ohio River Basin** 1101  
**Oil Shales** 167, 383, 949, 1007  
**Oil Wastes** 675, 1022  
**Oily Water** 1959  
**Oligochaetes** 229, 721  
**Omaha** 915, 1221, 1330, 1626, 1637, 1773, 1929  
**On Site Data Collections** 1934, 1998  
**On Site Investigations** 256, 337, 1155  
**Once Through Cooling Systems** 1390  
**Oncorhynchus Mykiss** 1039  
**Ontogeny** 2066  
**Open Channel Flow** 862, 2215  
**Operating Costs** 531  
**Operation Analysis** 516  
**Operations** 525, 1075, 1411  
**Opheim Formation** 2144  
**Opsonization** 1346  
**Optimization** 259, 525  
**Optimum Development Plans** 947  
**Orange Peel Dredge** 845  
**Oregon** 81, 1212  
**Organic** 239  
**Organic Acids** 10  
**Organic Carbon** 10, 1047  
**Organic Compounds** 18  
**Organic Contaminants** 1395  
**Organic Loading** 2038  
**Organic Materials** 10, 1456  
**Organic Matter** 464, 758, 765, 1064, 1998  
**Organic Residues** 24, 69, 352, 391, 465, 842, 1270, 2164  
**Organic Wastes** 675  
**Organochlorine Pesticides** 289, 1561  
**Organophosphorus Pesticides** 337, 1013  
**Origin** 1800, 1802  
**Osage River** 683  
**Osage River Basin** 175, 176, 1400  
**Osmerus Mordax** 221, 242, 433, 920, 1050, 1744, 1765  
**Osprey** 2031, 2032  
**Otoe County Nebraska** 1221  
**Outcrops** 832  
**Outwash** 1278  
**Overbank Flow** 635  
**Overharvesting** 740  
**Overtopping** 635  
**Ownership** 2106  
**Ownership of Beds** 82, 135, 2005  
**Oxbow Lakes** 1692, 1925, 2092, 2130, 2132, 2133  
**Oxidation Lagoons** 2038  
**Oxides** 1634, 2065, 2126, 2174, 2218, 2219  
**Oxygen Demand** 393  
**Ozark Plateau** 175, 176  
**Paddlefish** 52, 123, 152, 194, 250, 396, 535, 545, 611, 761, 822, 1049, 1107, 1114, 1232, 1346, 1461, 1509, 1550, 1551, 1552, 1553, 1554, 1560, 1570, 1579, 1765, 1974, 2015, 2017, 2023, 2193  
**Paint and Varnish** 675  
**Paleo Studies** 1788  
**Paleobotany** 203  
**Paleoclimatology** 524, 2186  
**Paleocurrents** 2144, 2185  
**Paleoecology** 302, 543, 674  
**Paleogene** 674  
**Paleogeography** 465, 832, 1657, 2184, 2186  
**Paleontology** 143, 184, 302, 674, 693, 986, 2066  
**Paleosols** 2186  
**Paleozoic** 184, 220, 391, 685, 686, 2148, 2157  
**Pallid Sturgeon** 49, 50, 181, 182, 248, 252, 297, 300, 362, 419, 425, 455, 466, 587, 718, 913, 930, 931, 932, 933, 934, 935, 1426, 1561, 1785, 1786, 2230  
**Palynology** 9  
**Palynomorphs** 9, 2186  
**Parameter Estimation** 480, 1479  
**Parametric Hydrology** 1479  
**Parasite** 1001, 1107, 1761  
**Parasites** 822, 1346  
**Parathion** 1013  
**Parking** 1869  
**Parks** 1330  
**Particle Size** 758, 895, 916, 1046, 1482  
**Particulate Matter** 1451  
**Path of Pollutants** 337, 355, 497, 581, 835, 862, 1083, 1204, 1363, 1451, 1561, 1753, 1930, 2173, 2216  
**Patterns** 390, 1237  
**Pcb** 609  
**Peachleaf Willow** 548  
**Peaking** 907  
**Pennsylvanian** 220, 391, 2148  
**Pennsylvanian Bedrock** 1673  
**Penstocks** 1406  
**Peoria Loess** 543  
**Perca flavescens** 41, 64, 87, 626, 940, 1062, 1113, 1262, 1477, 1564, 2061, 2073  
**Perche Creek** 190, 377, 378  
**Percichthyidae** 719  
**Percopsis omiscomaycus** 601  
**Peregrine Falcons** 663  
**Performance Assessment** 1050, 1892, 1893  
**Performance Engineering** 1406  
**Performance Evaluation** 1497  
**Periphyton** 294, 295, 345, 482, 1244, 1282, 1439, 1594, 2097  
**Perissodactyla** 2184  
**Permanganate** 464  
**Permeability** 281, 458, 460  
**Permian** 220  
**Pesticide Drift** 2173  
**Pesticide Residues** 857, 1013, 1582  
**Pesticide Toxicity** 337  
**Pesticides** 281, 341, 596, 597, 609, 1101, 1204, 1395, 2221, 2222  
**Petrography** 459, 2185, 2186  
**Petroleum** 465, 842, 1657, 2177  
**Petroleum and Natural Gas** 842  
**Petroleum County** 1817  
**Petroleum Exploration** 1657  
**Petrology** 695, 696, 697, 1666  
**Ph** 59, 1456  
**Phillips County** 44, 244, 1042, 1432, 1433, 1434, 2182, 2183  
**Phosphates** 2205  
**Phosphorus** 207, 393, 1711, 1796, 1929, 2124  
**Phthalic Acid** 2210  
**Physical Change** 659  
**Physical Geology** 2101  
**Physical Properties** 341, 758, 765, 1458, 1998  
**Physicochemical Properties** 765, 1458  
**Physiographic Geology** 76, 351, 505, 594, 839, 1100, 1772, 1800, 1802, 1805, 2118, 2119, 2181  
**Physiology** 372  
**Phytoplankton** 103, 597, 680, 907, 1061, 1063, 1436, 1437, 1459, 2124, 2205  
**Pick Sloan** 488, 531, 684, 929, 1140, 1604, 1913, 1915, 2159  
**Pierre Area** 351  
**Pierre Shale** 143, 563, 676, 961, 967, 1657  
**Pigmentation** 2105  
**Pike** 51  
**Pikes** 1204  
**Pimephales Promelas** 1564  
**Pimephales Vigilax** 359  
**Pipelines** 949  
**Piping Plover** 796, 977, 1280, 1559, 1660, 1814  
**Pisces** 202, 719, 769, 904, 1030, 1397, 1551, 1574  
**Piscivorous Fishes** 1361

- Pisgah Formation** 524  
**Placers** 1634, 2065, 2126, 2174  
**Plains** 4, 1308  
**Plains Cottonwood** 548  
**Plains Minnow** 741  
**Planar Bedding Structures** 2186  
**Plankton** 103, 294, 344, 597, 647, 902, 1091, 1234, 1235, 1256, 1259, 1294, 1415, 1428, 1437, 1661, 1998, 2088, 2125, 2162  
**Plankton Density** 103  
**Planning** 26, 68, 278, 383, 431, 571, 947, 963, 1071, 1330, 1536, 1798, 2159  
**Planning Comprehensive Planning** 1961  
**Planning Evaluation** 1629  
**Planning Utilities** 1959  
**Plant Communities** 1308  
**Plant Groupings** 1677  
**Plant Physiology** 224  
**Plant Populations** 367, 888, 1639  
**Plants** 173, 203, 224, 876, 888, 1022, 1308, 1547, 1677, 1715, 1716  
**Platte County Missouri** 391, 2148  
**Platte River** 341  
**Plattsburg Formation** 391  
**Plattsmouth** 2213  
**Platygobio gracilis** 741, 2141  
**Pleistocene** 79, 351, 391, 407, 416, 505, 524, 543, 1372, 1803, 1804, 2119, 2184  
**Pleistocene Changes** 351  
**Pleistocene Drainage Changes** 505, 2119  
**Pleistocene Drift** 351  
**Pleistocene Origin** 2119  
**Pleistocene Stages and Substages** 351  
**Pliocene** 2144, 2184  
**Plymouth County Iowa** 2184  
**Policy** 501, 924, 1128, 1604, 1792, 1879, 1904, 2156  
**Policy Making** 1325  
**Political Aspects** 430, 1325, 1794, 1959, 2140  
**Politics** 185  
**Pollock** 986  
**Pollutant Dispersion** 1404  
**Pollutant Identification** 237, 464, 675  
**Pollutants** 238, 341, 390, 597, 1456, 1458, 1614, 1780, 1930, 1933, 1959, 2221  
**Pollution** 71, 238, 281, 341, 390, 501, 596, 597, 598, 703, 823, 971, 1101, 1138, 1240, 1294, 1456, 1559, 1598, 1625, 1678, 1780, 2138, 2162, 2164, 2221  
**Pollution Abatement** 1116, 1381, 1711, 1910  
**Pollution Control** 205  
**Pollution Detection** 869  
**Pollution Dispersion** 1404  
**Pollution Effects** 748  
**Pollution Monitoring** 2210  
**Polychlorinated Biphenyls** 289, 857, 1561  
**Polymorphism** 1030  
**Polyodon spathula** 152, 194, 250, 396, 535, 611, 761, 822, 1049, 1107, 1232, 1346, 1461, 1509, 1550, 1551, 1552, 1553, 1554, 1560, 1570, 1579, 1765, 1974, 2015, 2017, 2023, 2193  
**Polypodium hydriforme** 822  
**Pomoxis annularis** 1204, 1662, 1663, 1664  
**Pomoxis nigromaculatus** 87, 1204, 1477, 1664, 2048  
**Ponar Dredge** 845  
**Ponca** 1878, 1879  
**Pondensers** 580  
**Ponds** 302, 1380  
**Popular Geology** 986, 1634, 2065, 2174, 2219  
**Population** 252, 294, 345, 499, 545, 555, 556, 572, 608, 708, 737, 761, 772, 870, 873, 923, 1251, 1257, 1293, 1371, 1402, 1462, 1485, 1486, 1488, 1516, 1525, 1585, 1644, 1707, 1708, 1718, 1753, 2057, 2071, 2072, 2079, 2080, 2085, 2086, 2154, 2204  
**Population Density** 87, 263, 819  
**Population Dynamics** 122, 720, 746, 1262, 1273, 1314  
**Population Equivalents** 1438  
**Population Genetics** 933, 968, 1030, 1621, 2180  
**Population Growth Rates** 1673  
**Population Levels** 769, 1387  
**Population Number** 1232, 2190  
**Population Structure** 1554  
**Population Trends** 1157  
**Populations** 1540  
**Populus Deltooides** 1618  
**Possibilities** 1032, 2177  
**Potable Water** 1582  
**Potamology** 2122  
**Potassium** 393, 558  
**Potholes** 1677  
**Potomac River** 629  
**Pottawattamie County Iowa** 1833  
**Powder River** 603, 604  
**Power** 651, 860, 1049, 1115, 1240, 1259, 1481  
**Power Development** 2160  
**Power Plants** 90, 218, 580, 582, 583, 584, 748, 950, 1091, 1336, 1358, 1406, 1932  
**Power Production** 1241  
**Power Spectral Analysis** 1072  
**Prairies** 1308  
**Precambrian** 407, 2218  
**Precipitating** 1346  
**Precipitation** 408, 429, 981, 987, 1677  
**Predation** 1113  
**Prediction** 435, 917, 1453, 1722, 2214  
**Preglacial** 1100  
**Preglacial Course** 2181  
**Preglacial Missouri River Valley** 1100  
**Prescriptive Reservoir Model** 486  
**Preservation** 10  
**Pressuremeters** 1732  
**Pressurized Water Reactors** 398  
**Presumptions Legal** 82  
**Prior Appropriation** 135, 430  
**Problem Analysis** 1142  
**Proboscidea** 2184  
**Procedures** 1098  
**Processes** 10, 915, 919, 1073, 1074, 1449, 1572  
**Production** 501, 868, 1594  
**Productivity** 103, 163, 294, 472, 891, 1235, 1293, 1437, 2205  
**Profiles** 27, 254  
**Programs** 818  
**Project Planning** 1145, 1798  
**Project Purposes** 1910  
**Projects** 164  
**Propagation** 396  
**Properties** 1458, 1685, 2106  
**Property** 82, 241, 2005  
**Property Values** 82  
**Protection** 1536  
**Proteins** 871, 1030, 1621  
**Proterozoic** 2218  
**Provenance** 481, 2144, 2163, 2184, 2186  
**Pseudochironomus** 845  
**Pterygota** 302  
**Public Health** 398, 1753  
**Public Participation** 571  
**Public Policy** 735, 854  
**Public Welfare Missouri** 67  
**Pump Tests** 522, 523  
**Pumping** 146, 851, 2064  
**Pumping Plants** 1913  
**Pyloodictis olivaris** 378, 740, 831, 984, 1184, 1190, 1197, 1527, 1574, 1810  
**Pyrometamorphism by Burning Lignite** 1666  
**Qualitative Information** 2225  
**Quantitative Distribution** 201  
**Quarries** 2148  
**Quartz and Feldspar Content** 694  
**Quaternary** 9, 79, 81, 302, 306, 320, 351, 373, 374, 391, 407, 416, 505, 524, 543, 1372, 1802, 1803, 1804, 2119, 2184

- Radar** 859  
**Radioactive Effects** 398  
**Radioactive Isotopes** 238, 524  
**Radioactive Wastes** 398  
**Radioactivity** 1753, 1960, 1998  
**Radionuclides** 2222  
**Rainbow Smelt** 221, 242, 433, 920, 1050, 1744, 1765  
**Rainbow Trout** 1039  
**Rainfall** 39, 227, 315, 861, 981, 1025, 1101, 1366  
**Rainfall Runoff** 338  
**Rainfall Runoff Relationships** 1476  
**Ralls County Missouri** 1076  
**Range** 879  
**Raninella oahuensis** 143  
**Rapid Sand Beds** 146  
**Rare Species** 913, 935, 1559, 1660, 1737  
**Rates** 967  
**Rating Curves** 74  
**Ratios** 2066  
**Reactivation** 1656  
**Rebound from Glaciation** 961  
**Recharge** 218, 281, 523, 861, 964  
**Reclamation** 164, 1639, 1910, 2164  
**Reconnaissance** 4  
**Reconstruction** 1657  
**Recreation** 36, 48, 96, 102, 164, 624, 855, 947, 1305, 1330, 1340, 1405, 1412, 1500, 1505, 1545, 1725, 1798, 1896, 1910, 1912, 1913, 1915, 1924, 2057, 2127, 2156, 2179  
**Recreation Demand** 1726, 1961  
**Recreation Facilities** 1869, 1913  
**Recreation Management** 2156  
**Recreation Resources Management** 1869  
**Recycling** 861, 1007  
**Red River** 253, 1476, 1659  
**Red River of the North** 1603  
**Regeneration** 1618  
**Regime** 74, 254  
**Regimen** 1563  
**Regional** 687, 1101  
**Regional Analysis** 1145, 1910, 2159  
**Regional Development** 924, 1961  
**Regional Planning** 501, 540, 1625, 1683  
**Regression** 1657  
**Regression Analysis** 481, 589, 758, 896, 999, 1083, 1473, 1572, 1755, 1891  
**Regulated Flow** 315, 897  
**Regulation** 135, 1305, 1764, 1899, 1930, 2208  
**Rehabilitation** 982  
**Relief Wells** 1497  
**Remediation** 1562  
**Remote Sensing** 39, 171, 355, 435, 630, 840, 990, 1032, 1165, 1205, 1225, 1370, 1448, 1450, 1603, 1625  
**Replacement Costs** 531  
**Reproduction** 224, 718, 901, 904, 1250, 1255, 1411, 1558, 1561, 1579, 2081  
**Reptiles** 336, 1152  
**Research** 97, 372, 442, 555, 2164  
**Research Priorities** 825  
**Reservoir** 225, 255, 1021, 2126  
**Reservoir Construction** 164, 314, 1029, 1915  
**Reservoir Control Center** 990  
**Reservoir Fisheries** 156, 2029, 2064, 2190  
**Reservoir Operation** 135, 156, 259, 366, 533, 1305, 1608  
**Reservoir Regulations** 101  
**Reservoir Releases** 259, 1064, 1796  
**Reservoir Rocks** 1657  
**Reservoir Sediments** 835  
**Reservoir Silting** 278, 481, 896  
**Reservoir Storage** 156, 964, 1412  
**Reservoir Temperature** 74, 103, 345, 1401, 2088, 2205  
**Reservoir Water** 42, 259, 382, 435, 856, 1404, 1654, 2190  
**Reservoirs** 6, 7, 47, 64, 87, 88, 94, 96, 98, 99, 100, 103, 108, 109, 164, 204, 238, 239, 249, 259, 295, 315, 343, 344, 345, 409, 430, 449, 487, 516, 525, 555, 556, 571, 572, 580, 651, 679, 708, 735, 760, 798, 818, 841, 845, 854, 868, 887, 891, 900, 901, 903, 906, 908, 967, 986, 990, 1035, 1048, 1049, 1061, 1063, 1064, 1078, 1088, 1097, 1113, 1213, 1234, 1235, 1254, 1256, 1259, 1261, 1268, 1276, 1293, 1314, 1376, 1392, 1394, 1404, 1411, 1437, 1557, 1572, 1604, 1613, 1622, 1623, 1645, 1653, 1661, 1691, 1716, 1764, 1767, 1843, 1894, 1897, 1899, 1915, 1917, 1970, 1980, 2057, 2064, 2080, 2081, 2085, 2086, 2088, 2091, 2205, 2208  
**Resins** 10  
**Resistance** 1626, 1627  
**Resource Allocation** 82  
**Resource Conservation** 665  
**Resource Development** 122  
**Resource Management** 185, 665, 775, 1274, 1676  
**Resources** 391, 465, 701, 842, 1034, 1779, 1961  
**Resting** 742  
**Restoration** 548, 779, 1435, 1901  
**Return Flow** 571, 1140, 1910, 2077  
**Revegetation** 947, 1381  
**Reverted Banks** 73  
**Revetments** 1312, 1601  
**Reviews** 1029, 1891  
**Reynolds Number** 2215  
**Rhinichthys cataractae** 2141  
**Rhinocerotidae** 2184  
**Rhodamine Dyes** 2173  
**Rio Grande** 710, 857, 1476, 2125  
**Rio Grande River** 1659  
**Riparian** 548, 881, 886, 889, 1090, 1543  
**Riparian Ecosystems** 889  
**Riparian Environments** 1639, 1692  
**Riparian Forests** 1618  
**Riparian Land** 82, 241, 854, 2005  
**Riparian Rights** 82, 1683, 2005  
**Riparian Vegetation** 815, 854  
**Riparian Waters** 82, 854  
**Ripple Marks** 1627  
**Riprap** 1099  
**Risk** 417, 1395, 1755  
**Risk Assessment** 417  
**River Banks** 161, 435, 835, 1639, 1892, 1893  
**River Basin Commissions** 315, 629  
**River Basin Development** 135, 315, 1274, 1798, 1910, 1912, 1915, 1959, 1961, 2057  
**River Basin Management** 417, 540, 760, 981, 1274, 1279, 1639  
**River Basin Planning** 1798  
**River Basins** 135, 383, 404, 525, 540, 778, 854, 856, 924, 958, 981, 1071, 1077, 1274, 1390, 1676, 1753, 1998, 2159, 2225  
**River Bed** 74, 82, 135, 225, 827, 863, 864, 917, 918, 1005, 1341, 1482  
**River Carpsucker** 448, 769, 1574, 1818, 2089  
**River Control** 516  
**River Corridor** 982, 1581  
**River Discharge** 259, 918, 948, 955  
**River Engineering** 158, 777, 855, 864, 909, 917, 948, 1274, 1279, 1692  
**River Fisheries** 777, 909  
**River Flow** 241, 256, 393, 1155, 1225, 1358, 1913, 1929, 2216  
**River Forecasting** 1225  
**River Geometry** 2214  
**River Management** 1796  
**River Networks** 825  
**River Profiles** 254  
**River Regulation** 135, 735, 741, 1728, 1998, 2179  
**River Regulations** 259, 819, 958, 1274, 1279, 1639  
**River Slope** 253, 254  
**River Systems** 1573, 1929, 1998  
**River Training** 82, 1453  
**River Valleys** 274  
**River Velocity** 743  
**Riverfront Beautification** 1330  
**Riverine Flood** 219



- Rivers** 26, 76, 131, 161, 185, 204, 229, 259, 351, 378, 390, 415, 465, 505, 593, 613, 616, 644, 710, 758, 760, 779, 839, 855, 862, 887, 889, 1024, 1047, 1071, 1116, 1155, 1164, 1216, 1221, 1225, 1279, 1308, 1336, 1358, 1370, 1389, 1449, 1482, 1627, 1635, 1636, 1639, 1712, 1773, 1781, 1805, 1806, 1869, 1895, 1917, 1924, 1932, 1959, 1971, 2030, 2092, 2103, 2118, 2119, 2122, 2181, 2210, 2213  
**Road Log** 120, 2218  
**Roccus chrysops** 1204  
**Rock Bass** 1204  
**Rock Creek** 2126, 2174  
**Rock Sills** 1021  
**Rockport** 81  
**Rocky Mountain Plain** 68  
**Rocky Mountain Region.** 167, 1077  
**Rocky Mountains** 3, 1212  
**Roughness Hydraulic** 27  
**Roughnesshydraulic** 1627  
**Rouse 'S Equation** 1637  
**Rousseau South Dakota** 676  
**Roxana Silt** 524  
**Rulo** 826, 1216, 1597  
**Runoff** 259, 318, 366, 379, 393, 558, 628, 702, 861, 981, 987, 1101, 1118, 1204, 1438, 1448, 1891, 1929, 2155  
**Sacramento River** 1319  
**Saint Charles County Missouri** 1544  
**Saint Louis County Missouri** 834, 1216, 1630  
**Saint Louis Harbor** 895, 1822  
**Saint Louis Missouri** 1216, 1630  
**Saline County** 1108  
**Saline River** 2216  
**Salinity** 1077  
**Salmo Clarki** 658, 1030, 1549  
**Salmo trutta** 1462  
**Salmonella** 1439, 1933, 2097  
**Salmonidae** 923  
**Salt and Pepper Sand** 2184  
**Salt River** 1138  
**Salt River Basin** 479, 1400  
**Salt River Valley** 1313  
**Sample Preparation** 710  
**Sample Preservation** 2124  
**Samplers** 1781  
**Samples** 1458  
**Sampling** 597, 710, 819, 845, 888, 1451, 1574, 1582, 1781, 1929, 1934, 1960, 1998, 2124, 2173  
**Sampling Sites** 1653  
**Sampling Stations** 1960  
**Sand** 27, 614, 694, 845, 2163, 2184, 2185  
**Sand Bars** 2005  
**Sand Bed Channels** 1627  
**Sand Deposition** 956  
**Sand Waves** 27  
**Sandbar** 970  
**Sandstone** 585, 832, 2157  
**Sangamonian** 79  
**Sanitary Engineering** 205  
**Sapphire** 1634, 2065, 2126, 2174, 2218, 2219  
**Sarpy County Nebraska** 1221  
**Saskatchewan** 1100  
**Sast** 432, 540, 559, 560, 738, 745, 858, 881, 1408, 1681, 1787, 1812, 2212  
**Satellite** 1205, 1625  
**Satellite Methods** 1032, 1603  
**Satellite Sensing** 39  
**Satellite Technology** 39, 1225, 1450  
**Sauger** 447, 624, 742, 1103, 1114, 1182, 1250, 1251, 1255, 1262, 1494, 1507, 2040, 2051, 2074, 2083, 2105  
**Scaphirhynchus albus** 49, 50, 180, 181, 182, 248, 252, 297, 300, 362, 419, 425, 455, 466, 587, 718, 913, 930, 931, 932, 933, 934, 935, 1426, 1561, 1765, 1785, 1786, 2230  
**Scaphirhynchus platyrhynchus** 180, 252, 300, 718, 933, 1153, 1155, 1167, 1168, 1594, 1611, 1785, 2232  
**Scaphites** 2066  
**Scenery** 1798  
**Scenic Highways** 1330  
**Scientific Personnel** 540  
**Scobey** 2144  
**Scour** 132, 159, 278, 279, 832, 850, 895, 1021, 1076  
**Scour Protection** 259  
**Scouring** 158, 160  
**Seasonal** 74, 1064, 1154, 1155, 1256  
**Seasonal Rating Curves** 74  
**Seasonal Variations** 906, 1273, 1312, 1572  
**Sediment** 74, 679, 680, 742, 793, 902, 928, 1235, 1562, 1931, 2008  
**Sediment Analysis** 758  
**Sediment Budget** 1363  
**Sediment Control** 1482  
**Sediment Discharge** 919, 1363, 1482, 1728  
**Sediment Dynamics** 741  
**Sediment Load** 408, 863, 896, 1711, 1822, 1895  
**Sediment Sorting** 758, 827, 916  
**Sediment Texture** 1033  
**Sediment Transport** 27, 124, 132, 161, 239, 481, 666, 758, 778, 824, 827, 863, 895, 896, 918, 1033, 1046, 1096, 1363, 1451, 1636, 1637, 1751, 1752, 2211  
**Sediment Yield** 896, 1097, 1458, 1686  
**Sedimentary Petrology** 81, 694, 919, 1339, 1458, 1613, 2144, 2163  
**Sedimentary Rocks** 24, 352, 391, 465, 585, 832, 842, 1270, 1657, 2144, 2148, 2157, 2164, 2185, 2195  
**Sedimentary Structures** 27, 302, 919, 1469, 1732, 2101, 2186  
**Sedimentation** 71, 159, 225, 238, 249, 254, 259, 278, 279, 405, 408, 478, 481, 524, 594, 595, 666, 704, 814, 826, 827, 832, 895, 915, 918, 919, 1023, 1046, 1096, 1097, 1125, 1216, 1221, 1312, 1343, 1344, 1449, 1563, 1573, 1578, 1613, 1637, 1639, 1674, 1686, 1751, 1799, 1822, 1831, 1885, 2061, 2092, 2163, 2184, 2186, 2209  
**Sedimentation Rates** 238, 1751  
**Sediments** 69, 81, 94, 159, 160, 162, 172, 238, 276, 279, 281, 306, 374, 391, 407, 408, 411, 415, 522, 523, 524, 585, 593, 594, 677, 694, 824, 869, 936, 1278, 1336, 1343, 1344, 1363, 1366, 1372, 1458, 1576, 1613, 1614, 1636, 1653, 1674, 1678, 1685, 1752, 1781, 1800, 1802, 1803, 2122, 2163, 2184, 2185, 2221  
**Seepage** 523, 1677, 1732, 2038  
**Segregation** 1458  
**Seine** 1574, 2061  
**Seining** 620  
**Seismic Surveys** 1073, 1074  
**Seismology** 398  
**Selenium** 598, 1559  
**Semiarid Lands** 2106  
**Semipermeable Membrane Devices** 1395  
**Senonian** 2066  
**Sensitivity Analysis** 161  
**Separation** 1458  
**Settleability** 237  
**Settleable Solids** 237  
**Settling Basins** 146  
**Sewage** 1934  
**Sewage Bacteria** 1439, 2097  
**Sewage Disposal** 1773  
**Sewage Treatment** 169, 1439, 1711, 1773, 1934, 1959, 2097  
**Sewers** 980  
**Sexual Dimorphism** 2066  
**Sexual Maturity** 742, 932, 934, 1069, 1252, 2061  
**Shale** 1657  
**Shallow Water** 1099, 1722, 1822  
**Sharpy County Nebraska** 1833  
**Shear Strength** 1685  
**Shear Stress** 161  
**Sheridan County North Dakota** 478  
**Sheyenne River Basin** 808, 1445, 1609  
**Shonkin Sag** 585

- Shore Birds 1280  
 Shoreline 100, 101, 676, 967, 1073, 1074, 1572, 1715, 1716, 1787  
 Shoreline Vegetation 2049  
 Shorthead Redhorse 448  
 Shortnose Gar 1765  
 Shovelnose Sturgeon 252, 300, 718, 933, 1153, 1155, 1167, 1168, 1594, 1611, 1765, 1785, 2232  
 Sicklefin Chub 621, 1166, 1423  
 Siderite 2220  
 Silica 393  
 Silicaceae 1618  
 Silicon 59  
 Silt 704, 845, 1204, 1573, 1685, 2185  
 Siltation 1613  
 Silting 895, 1822  
 Silver Carp 339  
 Silver Lamprey 54  
 Simulation 160, 824, 919, 1796, 2214  
 Simulation Analysis 635, 825, 916, 1390  
 Simulium 1282  
 Sioux City 1430, 1637, 1773, 2213  
 Sioux Quartzite 407  
 Site Exploration 1544  
 Sites 398, 1116, 1655  
 Size Distribution 162  
 Skipjack Herring 360  
 Slope Discharge Relationships 253  
 Slope Stability 172, 276, 391, 563, 967, 1544, 1685  
 Slopes 999  
 Sludge 146, 237  
 Sludge Disposal 146  
 Sludge Production 146  
 Sludge Treatment 237  
 Slug Tests 281  
 Slump Faulting and Rebound of Pierre Shale 961  
 Slurries 849, 949  
 Small Watershed Program 1071  
 Small Watersheds 1071, 1332, 1333, 1334, 1335  
 Smallmouth Bass 968, 1494, 1973, 2040  
 Smallmouth Buffalo 448, 1080, 2089  
 Smelt 1114, 1347  
 Snow Geese 530  
 Snowfall 429  
 Snowmelt 366, 429  
 Social Aspects 167, 236, 1007, 1628  
 Social Costs 1628, 1629  
 Social Impact 2057  
 Social Values 2106  
 Society 619  
 Socio Economics 1004, 1209, 1726, 1753  
 Socioeconomic Assessments 1869  
 Sociological Aspects 163  
 Sodakus tatankayotankaensis 143  
 Sodium 393, 558  
 Sodium Adsorption Ratio 558  
 Softening Sludges 237  
 Soil Chemical Properties 141  
 Soil Chemistry 1614  
 Soil Conservation 82, 1028, 1118, 1686, 1981  
 Soil Erosion 367, 628, 814, 1071, 1118, 1341  
 Soil Mechanics 276, 593  
 Soil Profiles 1544  
 Soil Stability 141, 1497  
 Soil Surveys 1620  
 Soil Types 224, 1620  
 Soil Water 981, 1497  
 Soil Water Plant Relationship 1677  
 Soils 4, 9, 59, 69, 94, 172, 585, 598, 677, 887, 956, 1603, 1685, 2186  
 Solid Wastes 237  
 Solubility 1614  
 Solute Transport 597  
 Solutes 168  
 Sorption 10, 69, 677  
 Sorting 2125  
 Souris River Basin 972, 1609  
 South Central District 1498, 1643  
 South Central Region 453  
 South Dakota. 8, 9, 11, 82, 87, 94, 141, 143, 160, 165, 191, 217, 227, 238, 307, 351, 379, 405, 411, 449, 505, 508, 509, 526, 527, 536, 563, 624, 676, 685, 686, 822, 835, 841, 846, 876, 888, 906, 907, 961, 964, 1023, 1033, 1064, 1076, 1098, 1113, 1154, 1155, 1314, 1363, 1406, 1448, 1449, 1450, 1498, 1554, 1578, 1594, 1603, 1604, 1631, 1643, 1656, 1657, 1670, 1781, 1802, 1805, 1816, 1878, 1879, 1913, 1987, 1998, 2009, 2013, 2021, 2057, 2064, 2066, 2101, 2118, 2119, 2177, 2194, 2195  
 South Dakotautah 3  
 Southern California 919  
 Southern Great Plains 1449  
 Southwestern North Dakota 306  
 Spatial Distribution 906, 1677  
 Spatial Variations 1370  
 Spawning 64, 201, 339, 449, 556, 572, 679, 831, 873, 900, 904, 1245, 1253, 1259, 1347, 1380, 1644, 1662, 1771, 2015, 2017, 2061, 2080, 2085, 2088  
 Spawning Seasons 904, 1069  
 Speciation 2180  
 Species 100  
 Species Abundance 741  
 Species Composition 502, 885, 888, 1064, 1360  
 Species Density 740  
 Species Diversity 543, 721, 885, 888, 1360, 1562, 1601  
 Species List 56, 196, 197, 291, 410, 556, 793, 1085, 1355, 1396  
 Species Lists 1044  
 Specific Resistance 237  
 Spectral Analysis 480  
 Spectroscopy 464  
 Spillways 225, 1098, 1099  
 Spirit Lake 1430  
 Spokane Formation 2218  
 Sport Fishery 96, 122, 152, 544, 623, 662, 737, 761, 900, 1117, 1257, 1347, 1485, 1486, 1488, 1645, 1738, 1739, 2023, 2070, 2072, 2073, 2074  
 Sport Fishing 28, 413, 1506  
 Spotted Bass 968  
 Springs 2157  
 Sprinkler Irrigation 379  
 St. Francis River Basin 178, 820, 1058  
 St. Josephmo 1773  
 St. Marys 81  
 Stability 172, 1544, 2148  
 Stabilization 225, 276, 1686, 2005  
 Stable Channels 1573  
 Stable Isotopes 238  
 Stage Discharge Relations 74, 1070, 1096  
 Stages and Substages 351  
 Standard Deviation 1722  
 Standards 583, 1796, 1932  
 Standing Crops 295, 344, 1064, 1154, 1282, 2205  
 Stanley County 217, 508, 509  
 Stanton Formation 391  
 State Governments 135, 629, 1932, 2159  
 State Jurisdiction 2077  
 State Policy 82  
 Statistical Analysis 215, 405, 702, 819, 1572, 1574, 1655, 1732, 2077  
 Statistical Methods 27, 481, 999, 1722  
 Statistical Models 589  
 Statistics 27, 485, 1425, 1541  
 Status 1976, 1977, 1979  
 Stegodon 2184  
 Sterols 1773  
 Stilling Basins 225, 1098  
 Stizostedion 2104  
 Stizostedion canadense 447, 624, 742, 1103, 1182, 1250, 1251, 1255, 1262, 1494, 1507, 2040, 2051, 2083, 2105  
 Stizostedion canadensis 2074  
 Stizostedion Vitreum 87, 211, 212, 275, 447, 449, 626, 712, 811, 1103, 1109, 1113, 1182, 1204, 1255, 1262, 1347, 1485, 1486, 1487, 1488, 1494,

- 1975, 2040, 2074, 2105, 2189  
**Stochastic Data** 480  
**Stochastic Methods** 441  
**Stochastic Processes** 480  
**Stock Assessment** 122, 769, 2029  
**Stock Identification** 1621  
**Stock Water** 1677  
**Stocking Organisms** 2190  
**Stoddard County** 178  
**Storage Allocation** 486  
**Storm Runoff** 1412, 1711  
**Storm Sewers** 1894  
**Storm Water** 1412  
**Stormwater Management** 628  
**Stormwater Runoff** 14, 259, 981, 1118  
**Stranger Formation** 391  
**Stratigraphy** 9, 79, 373, 391, 416, 524, 543, 674, 832, 1372, 1657, 2144  
**Stream Banks** 229  
**Stream Channelization** 1969  
**Stream Discharge** 408, 721, 1164  
**Stream Ecology** 166, 240, 413, 721, 749, 750, 1598  
**Stream Erosion** 408, 1021, 1450, 1728  
**Stream Gages** 987, 1070  
**Stream Gaging** 1164  
**Stream Improvement** 1563  
**Stream Measurements** 166, 273  
**Stream Placers** 2174  
**Stream Preservation** 1383  
**Stream Stabilization** 1728, 2005  
**Stream Transport** 159, 238, 279, 405, 597, 814, 826, 919, 1023, 1125, 1216, 1343, 1344, 1578, 1613, 1751, 1752, 2092  
**Stream Velocity** 1669  
**Stream Width** 74  
**Streambank Planting** 1028  
**Streambed** 1135  
**Streamflow** 2, 74, 215, 253, 273, 355, 429, 497, 566, 702, 895, 896, 897, 918, 955, 958, 959, 960, 987, 999, 1070, 1216, 1278, 1332, 1333, 1334, 1335, 1343, 1358, 1364, 1366, 1388, 1462, 1479, 1482, 1608, 1655, 1913, 1915, 2069, 2155, 2173, 2214  
**Streamflow Forecasting** 314, 366, 429, 1029, 1225  
**Streamflow Statistics** 1673  
**Streamflow Synthesis and Reservoir Regulation Model** 366  
**Streams** 2, 131, 161, 390, 869, 897, 991, 1125, 1204, 1613, 1627, 1639, 1722, 2090  
**Stress** 950  
**Strike Slip Faults** 1656  
**Strip Mine Lakes** 14  
**Strip Mine Wastes** 167  
**Strip Mines** 167, 314, 383, 558, 1029, 1381, 2164  
**Strontium 90** 1101  
**Structural Engineering** 1601  
**Structural Geology** 695, 840, 961  
**Structures** 1098, 1336, 1482, 1544, 1686  
**Sturgeon** 57, 136, 600, 609  
**Sturgeon Chub** 829, 1423, 1978, 2141  
**Stutsman County** 1775  
**Substrate** 345  
**Subtropical Environment** 2186  
**Succession** 887  
**Suckers** 923, 1501  
**Sulfates** 393, 558, 2124  
**Sunfishes** 1204, 1574  
**Surface Ground Water Relations** 214, 701, 964  
**Surface Mining** 2164  
**Surface Runoff** 379, 1335, 1677  
**Surface Water** 204, 238, 341, 596, 597, 598, 615, 823, 861, 1138, 1278, 1362, 1456, 1653, 1780, 1960, 1987, 1988, 2041, 2059, 2155, 2222  
**Surface Water Resources Iowa** 2155  
**Surficial** 1772  
**Surge Tanks** 1406  
**Survey** 283, 556, 623, 798, 891, 923, 1257, 2153, 2192  
**Survey Organizations** 1678  
**Survey Water Resources** 1782  
**Surveys** 8, 11, 59, 69, 94, 160, 204, 215, 218, 227, 354, 392, 405, 442, 459, 521, 522, 523, 585, 593, 598, 638, 677, 826, 840, 851, 988, 990, 1032, 1034, 1073, 1074, 1125, 1138, 1216, 1221, 1339, 1343, 1344, 1424, 1431, 1448, 1449, 1555, 1572, 1578, 1603, 1613, 1625, 1732, 1781, 1833, 1878, 1879, 1987, 1988, 2077, 2131, 2157  
**Survival** 1737  
**Survivorship** 889  
**Suspended Load** 895, 948, 1096  
**Suspended Materials** 1138, 1339, 1458, 1613, 1751  
**Suspended Organics** 464, 758, 765, 1998  
**Suspended Sediments** 835, 1097, 1363, 1451  
**Suspended Solids** 393, 1022, 1336, 1482, 1998, 2122  
**Suspension** 1096, 1752  
**Susquehanna River** 253, 629  
**Sustainable Development** 1274  
**Sutures** 2066  
**Swift Formation** 2157  
**Swimming** 1601, 1820  
**Symbionts** 1813  
**Symbiosis** 1813  
**Sympatric Populations** 968  
**System Analysis** 382, 856  
**Systematics** 1154, 1282  
**Systems Analysis** 525, 1390, 2041  
**Systems Analysis Equations** 2225  
**Taayer Reservoirs** 571  
**Tagging** 297, 300, 466, 712, 1167, 1232, 1387, 1611  
**Tailwater Temperature Patterns** 1266  
**Tailwaters** 532, 545, 624, 1264, 1645, 2088, 2090, 2091, 2192  
**Tanypodinae** 845  
**Tanytarsus** 845  
**Taste** 464, 675, 1439, 1929, 2097  
**Tatrapods** 2185  
**Taxonomy** 143, 153, 203, 871, 1030, 1549  
**Tde** 857  
**Technical Assistance** 1930  
**Techniques** 10, 1370  
**Technology** 845, 1007  
**Tectonic Controls** 1657  
**Tectonics** 120, 840, 1656  
**Temperature** 74, 212, 256, 284, 345, 589, 679, 851, 902, 923, 1072, 1155, 1196, 1358, 1389, 1392, 1402, 1476, 1752, 2071, 2088, 2205  
**Temperature Control** 1932  
**Temperature Distribution** 256  
**Temperature Effects** 580  
**Temperature Preferences** 482  
**Temporal Distribution** 1677  
**Tendipedidae** 295  
**Teneriffe Silt** 524  
**Tennessee** 1456  
**Tennessee River** 629  
**Terraces** 1634, 1801, 2065, 2144  
**Terracing** 254  
**Terrestrial Environment** 543  
**Tertiary** 306, 320, 442, 674, 685, 686, 691, 1093, 2144, 2184, 2185  
**Tertiary History** 76  
**Tertiary Pleistocene** 839  
**Tertiary Pleistocene Changes** 839  
**Test Equipment** 1406  
**Test Methods** 1406  
**Tests** 1098, 2210  
**Teton County** 443, 445, 1161, 1791  
**Tetrabranchiata** 986, 2066  
**Tetrapods** 336, 2184  
**Textures** 159, 411, 1344, 2163  
**Theoretical Analysis** 862, 1891  
**Theria** 2184  
**Thermal** 90  
**Thermal Capacity** 580, 584  
**Thermal Discharges** 583  
**Thermal Effects** 1222  
**Thermal Efficiency** 1389  
**Thermal Effluent** 1241

- Thermal Plumes** 256, 1358, 1807  
**Thermal Pollution** 261, 355, 582, 584, 1072, 1358, 1389, 1390, 1932  
**Thermal Power Plants** 256, 582, 1389  
**Thermal Properties** 580  
**Thermal Stress** 261, 950  
**Thermal Water** 583  
**Thermoelectric Power Generation** 1390  
**Thermoluminescence** 524  
**Thickness** 1656  
**Thompson River** 1138  
**Threatened Species** 1548  
**Three Dimensional Models** 215, 522, 523  
**Thymallus signifer** 1245  
**Till** 94, 391, 407, 1278, 2185  
**Time Series Analysis** 1998  
**Tissue Analysis** 1561  
**Topeka Kansas** 407  
**Topographic Analysis** 305, 307  
**Topographic Maps** 840  
**Topography** 306, 307, 1125, 1677, 1891  
**Toston Dam** 42  
**Towing Industry** 26  
**Toxaphene** 857  
**Toxic Chemicals** 581  
**Toxic Materials** 281  
**Toxicants** 1712, 2099  
**Toxicity** 337  
**Trace Elements** 598, 1780, 2164, 2222  
**Trace Metals** 598, 1780  
**Tracers** 497, 2173, 2215, 2216  
**Tracking Techniques** 2173  
**Transducers** 388  
**Transgression** 1657, 2186  
**Transient Models** 480  
**Transition Zone** 888  
**Transmissivity** 458, 460, 1632  
**Transport** 159, 160, 279, 405, 441, 524, 742, 826, 1125, 1216, 1343, 1344, 1578, 1613, 2092, 2191  
**Transportation** 130, 398, 949  
**Transverse Mixing** 256, 862  
**Trash Fish** 1050  
**Travel Time** 2173  
**Trawling** 620  
**Treatment Facilities** 169, 237, 980, 1412, 1439  
**Trees** 224, 367, 883, 887, 1473  
**Trenches** 151, 1840  
**Trends** 886  
**Triazines** 281, 596  
**Tributaries** 378, 772, 1021, 1071, 1472, 1839, 1929  
**Tributary Streams** 1197  
**Trichoptera** 1088, 1105, 1154, 1282  
**Trihalomethane** 1455, 1456  
**Trithion** 1013  
**Trout** 923  
**Troutperch** 601  
**Trustland** 2106  
**Tube Dwellers** 258  
**Tube Forming Diatoms** 258  
**Tunnels** 388, 2148  
**Turbidity** 103, 393, 740, 765, 902, 907, 1096, 1392, 1912, 2008, 2071  
**Turbidity Current Structures** 919  
**Turbulence** 497, 1358  
**Turbulent Dispersion** 2215  
**Turbulent Flow** 256, 2215  
**Two Dimensional Models** 190, 405, 1732  
**Type Sections** 2186  
**U.S. Army Corps of Engineers** 315, 947, 1605, 1798, 2092  
**Ultrafiltration** 10  
**Ultramafic** 695, 696  
**Ultramafic Composition** 697  
**Unchanneled** 624, 749, 750, 970, 1585  
**Unconformities** 832, 1657  
**Underground Installations** 2148  
**Underground Structures** 388  
**Underground Water** 922, 1675  
**Underwater Temperature Measurement** 1266  
**Uniform Flow** 2215  
**Unionidae** 1788  
**Unsteady Flow** 278, 721  
**Uplifts** 306  
**Upper Cenozoic** 2163  
**Upper Colorado River Basin** 531  
**Upper Columbia River Basin** 2  
**Upper Cretaceous** 143, 563, 674, 676, 961, 967, 1657, 1878, 1879, 2066, 2186  
**Upper Jurassic** 2157  
**Upper Miocene** 2144  
**Upper Mississippi River** 581  
**Upper Mississippi Valley** 246, 1613  
**Upper Missouri River** 1034  
**Upper Missouri River Basin** 314, 531, 888, 1029, 1449, 1655  
**Upper Pennsylvanian** 391  
**Upper Pleistocene** 79, 524, 543, 1803  
**Upper Precambrian** 2218  
**Upper Tertiary** 306  
**Urban Areas** 219  
**Urban Flooding** 834, 1894  
**Urban Planning** 1630  
**Urban Runoff** 1711  
**Urbanization** 314, 834, 958, 1029, 1625  
**Urnatella gracilis** 1813  
**Utah Chub** 1050  
**Valley County** 243, 541, 1231  
**Valley County Montana** 2144  
**Valleys** 1100, 1308, 2119  
**Value** 1755  
**Vanes** 1320  
**Variability** 1677  
**Vegetation** 173, 224, 548, 747, 883, 888, 889, 1618, 1677, 1715, 1716, 2123  
**Vegetation Cover** 958  
**Veins** 2218  
**Velocity** 955  
**Vertebrate Fauna** 87, 101, 156  
**Vertebrates** 336, 843, 1002, 1038, 2144, 2184, 2185  
**Vibracores** 1781  
**Vibratory Technique** 1781  
**Vicksburg** 81  
**Vilas Formation** 391  
**Violations** 1917  
**Virgilian** 391  
**Viruses** 2097  
**Viscosity** 1096, 1626  
**Vision** 1553  
**Volcanic Ash** 2144  
**Volume** 845  
**Wabash River Basin** 1891  
**Walleye** 38, 87, 211, 212, 275, 447, 449, 626, 712, 811, 1103, 1109, 1113, 1114, 1182, 1204, 1255, 1262, 1347, 1485, 1486, 1487, 1488, 1494, 1975, 2040, 2074, 2105, 2189  
**Walth Bay** 9  
**Walworth County** 536  
**Walworth County South Dakota** 9  
**Wamego** 407  
**Warning Services** 39  
**Washington** 1212  
**Waste Disposal** 391, 1678, 2164  
**Waste Disposal Sites** 1544  
**Waste Heat** 1389  
**Waste Identification** 237  
**Waste Treatment** 1438, 1933, 2097  
**Waste Water** 190  
**Waste Water Disposal** 205, 1773  
**Waste Water Pollution** 1013  
**Waste Water Treatment** 169, 205, 980, 1022, 1116, 1412, 1934, 1959, 2038, 2077, 2097  
**Waste Water Treatment Plants** 205  
**Water Allocation** 102, 236, 383, 403, 404, 430, 1324, 1394, 1792, 1794  
**Water Allocation Policy** 167, 314, 431, 924, 1029, 1077  
**Water Analysis** 835, 1451, 1582, 1653, 1807, 1929, 1998  
**Water Chemistry** 96, 103, 341, 354, 459, 597, 598, 907, 1138, 1260, 1456, 1576, 1780, 2221  
**Water Conservation** 68, 533, 582, 592, 615, 924, 1031, 1075, 1090, 1325, 1369, 1499, 1500, 1686, 1814,

- 1910, 2179
- Water Consumption** 383, 583, 924
- Water Control** 629, 1980
- Water Control Plan** 292
- Water Conveyance** 635
- Water Cooling** 256, 580, 584
- Water Current** 1164
- Water Delivery** 2064
- Water Demand** 68, 167, 314, 533, 924, 949, 1029, 1077
- Water Depth** 758, 1722
- Water Development** 2160
- Water Distribution** 236
- Water Distribution Applied** 314, 1029, 1915
- Water Distribution Policy** 525, 1910
- Water Diversion** 68
- Water Erosion** 161, 172, 246, 1220, 1544, 1578
- Water Exchange** 259
- Water Harvesting** 68
- Water Law** 82, 1563, 1930, 2005, 2159
- Water Level** 39, 42, 101, 212, 345, 460, 613, 614, 900, 964, 1021, 1062, 1250, 1411, 1653, 1654, 1910, 2187
- Water Level Fluctuation** 214, 295, 1154
- Water Levels** 2226
- Water Loss** 583
- Water Management** 11, 94, 99, 190, 204, 218, 236, 382, 404, 598, 818, 823, 851, 855, 1253, 1315, 1604, 1678, 1917, 2085, 2157
- Water Management Applied** 156, 1915, 2106, 2179
- Water Management Policy** 486
- Water Policy** 82, 383, 404, 487, 592, 660, 924, 1031, 1075, 1090, 1369, 1499, 1500, 1629, 1725, 1814, 1910, 2041, 2159
- Water Pollution** 261, 314, 337, 398, 582, 629, 1007, 1029, 1358, 1381, 1390, 1395, 1932, 1958, 1961, 2124, 2210
- Water Pollution Control** 629, 947, 1022, 1116, 1930, 1932, 1934, 1959, 2041
- Water Pollution Control Administration** 629
- Water Pollution Effects** 675, 849, 1561
- Water Pollution Sources** 237, 355, 398, 582, 584, 675, 835, 862, 959, 960, 1013, 1083, 1438, 1556, 1582, 1711, 1773, 1932, 1933, 1961
- Water Pollution Treatment** 675, 1933, 1959
- Water Problems** 1145
- Water Projects** 531
- Water Properties** 1929
- Water Purification** 146, 169, 1959
- Water Quality** 2, 11, 18, 43, 96, 98, 103, 109, 132, 167, 174, 207, 314, 341, 393, 458, 459, 460, 461, 464, 480, 517, 571, 581, 589, 596, 597, 615, 628, 680, 765, 841, 869, 923, 959, 960, 1008, 1013, 1029, 1083, 1101, 1115, 1116, 1138, 1140, 1165, 1237, 1240, 1259, 1266, 1268, 1294, 1305, 1402, 1437, 1573, 1598, 1632, 1651, 1652, 1653, 1654, 1673, 1677, 1678, 1795, 1796, 1797, 1807, 1929, 1931, 1934, 1959, 1961, 1988, 1998, 2000, 2001, 2008, 2090, 2124, 2151, 2157, 2162, 2164
- Water Quality Control** 5, 169, 629, 855, 1895, 1913, 1933
- Water Quality Data** 480
- Water Quality Models** 480
- Water Quality Standards** 205, 582, 1933
- Water Quantity** 2000, 2001
- Water Regimes** 59
- Water Requirements** 1077
- Water Resources** 24, 156, 185, 218, 280, 391, 442, 458, 459, 460, 461, 501, 615, 851, 861, 866, 987, 988, 1032, 1138, 1142, 1212, 1216, 1270, 1274, 1278, 1342, 1476, 1555, 1619, 1651, 1652, 1654, 1910, 1933, 1988, 2155, 2157, 2179
- Water Resources Data** 1364
- Water Resources Development** 461, 487, 571, 592, 660, 673, 735, 747, 854, 924, 947, 1031, 1059, 1075, 1090, 1128, 1144, 1290, 1325, 1369, 1499, 1500, 1583, 1608, 1628, 1629, 1669, 1725, 1726, 1814, 1896, 1897, 1910, 1915, 1925, 1928, 1959, 1961, 2140, 2155, 2225
- Water Resources Management** 533, 684, 1683, 1917, 2231
- Water Resources Planning** 1145, 1673, 1961
- Water Resources Planning Act** 629
- Water Rights** 82, 571, 924, 1683, 2207
- Water Sampling** 1164
- Water Scarcity** 68
- Water Shortage** 167, 1077
- Water Softening** 146
- Water Soluble Constituents** 558
- Water Storage** 854, 1412, 1604, 1620
- Water Supply** 11, 68, 156, 280, 314, 383, 431, 841, 851, 855, 861, 924, 1029, 1060, 1138, 1270, 1290, 1305, 1325, 1362, 1476, 1582, 1604, 1619, 1673, 1677, 1794, 1917, 1959, 1961, 2077, 2155
- Water Supply Development** 1913, 1915, 1961
- Water Supply Management** 487, 592, 660, 1031, 1075, 1090, 1369, 1499, 1500, 1814
- Water Surface Profiles** 635
- Water Table** 94, 281, 1473, 1732
- Water Temperature** 2, 74, 103, 212, 580, 582, 584, 589, 906, 907, 1072, 1091, 1096, 1241, 1250, 1264, 1358, 1390, 1462, 1608, 1636, 1653, 1722, 1796, 1932, 2061, 2122, 2124
- Water Temperature Residuals** 589
- Water Temperature Sedimentation Relations** 1096
- Water Transfer** 68, 571, 598
- Water Treatment** 5, 146, 464
- Water Use** 68, 274, 404, 571, 1325, 1673, 1683, 1961, 2077
- Water Use Efficiency** 533
- Water Use Regulations** 5
- Water Use Statistics** 2077
- Water Utilization** 431, 461, 1077, 1726
- Water Yield** 458, 459, 461, 841, 1915, 2155
- Waterbirds** 439
- Waterfowl** 1677, 1912
- Watershed Management** 156, 315, 533, 1263, 1686, 1910, 1999
- Watersheds** 246, 366, 958, 1583
- Watersheds Basins** 1007, 1071, 1390, 1614, 1910, 2041
- Waterway System Improvements** 26
- Waterway Transportation** 26
- Waterways** 159, 162, 218, 246, 276, 279, 553, 823, 915, 1216, 1220, 1221, 1312, 1370, 1453, 1578, 1638, 1781, 1833, 1878, 1879, 2092
- Waveswater** 345
- Weather Forecasting** 39
- Weather Modification** 68, 429
- Weirs** 635, 1099
- Weldon Spring Missouri** 1544, 1678
- Well Logging** 522, 1772
- Wells** 281, 354, 379, 458, 459, 460, 461, 851, 1438, 1497, 1632, 1772, 2157, 2221
- West Central Montana** 2218
- West Tarkio Creek** 1005
- Western Arizona** 919
- Western Canada** 1100
- Western Iowa** 2184
- Western North Dakota** 818
- Western Silvery Minnow** 741
- Western States Water Augmentation Concept** 68
- Weston Formation** 391
- Wetland Management** 628
- Wetlands** 75, 145, 187, 190, 205, 342, 367, 375, 437, 538, 571, 577,

- 586, 736, 815, 881, 887, 888, 948,  
958, 982, 1022, 1090, 1672, 1677,  
1692, 1869, 1913  
**White Bass** 1113, 1204, 1255, 1557,  
1558  
**White Bassfish** 1062  
**White Crappie** 1204, 1662, 1663,  
1664  
**White Perch** 719  
**White River** 307, 2119  
**White River Basin** 3  
**White Sucker** 1255, 1564  
**Width** 999  
**Wild and Scenic River** 566, 963,  
1924  
**Wild Rivers** 1726, 1798, 2179  
**Wild Rivers Act** 2179  
**Wilderness Areas** 1924  
**Wildlife** 164, 314, 571, 1029, 1868,  
1869  
**Wildlife Conservation** 747, 1660,  
1910, 1912, 1913  
**Wildlife Habitat** 1840  
**Wildlife Habitat Improvement**  
1969  
**Wildlife Habitats** 314, 747, 854,  
947, 1029, 1677, 1686, 1912, 1913,  
1915  
**Wildlife Management** 740, 741,  
947, 1869  
**Wildlife Mitigation** 1870  
**Williston** 316  
**Williston Basin** 674  
**Willow** 885  
**Wind Erosion** 524, 1912  
**Wind Transport** 524  
**Wisconsin** 1456  
**Wisconsinan** 79, 543, 1803  
**Woodbury County** 214  
**Woodbury Member** 2186  
**Woodlands** 1672  
**Wyandotte Formation** 391  
**Wyoming** 3, 11, 24, 960, 1212,  
1381, 1388, 1449, 1987  
**Xad 8** 10  
**Yampa River** 68  
**Yampa River Basin** 3  
**Yankton** 1033, 1637, 2195  
**Yarmouthian** 79  
**Year Class** 707  
**Yellow Perch** 41, 64, 87, 626, 940,  
1062, 1113, 1262, 1477, 1564, 2061,  
2073  
**Yellowstone** 658, 1570, 1785  
**Yellowstone National Park** 1034  
**Yellowstone River** 603, 604, 687,  
1389, 1960  
**Yellowstone River Basin** 453, 1385,  
1508  
**Yogo Gulch** 1634, 2126, 2174  
**Young of the Year** 88, 449, 535,  
906, 1411, 1560  
**Zinc** 393  
**Zoning** 391  
**Zoogeography** 502  
**Zooplankton** 40, 103, 907, 920,  
1062, 1064, 1113, 1152, 1311, 1314,  
1436, 1475, 1594, 1622, 1623, 1696,  
2165, 2205

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